

The structure of import tariffs in the Russian Federation: 2001-2005

Oleksandr Shepotylo, Economics Education and Research Consortium
and Kiev Economic Institute

David Tarr, The World Bank

Abstract: The Russian tariff structure contains over 11,000 tariff lines, of which about 1,700 use the so called “combined” tariff rate system. For the combined system tariff lines, the actual tariff applied by Russian customs is the maximum of the ad valorem or specific tariff. The lack of available data and the difficulty in calculating the ad valorem equivalence of the specific tariffs have resulted in some previous efforts that have simply ignored the specific tariffs. This is the first paper to accurately assess the tariff rates. The authors show that ignoring the specific tariffs results in an underestimate of the actual tariff rates by about one to three percentage points, depending on the year. The average tariff in Russia has increased between 2001 and 2003 from about 11.5 to between 13 and 14.5 percent, but it has held steady in 2004 and 2005. This places Russia’s tariffs at a level slightly higher than other middle-income countries and considerably higher than the OECD countries. The trade weighted standard deviation of the tariff approximately doubled from 9.5 percent in 2001 to 18 percent in 2003, but then fell to 15.2 percent by 2005. The food sector and light industry are the aggregate sectors with the highest tariff rates—their tariff rates in 2005 were 23.1 and 19.5 percent on a trade-weighted basis, but the increase in their tariffs has not led to an increase in their output.

JEL categories F13; F14.

Keywords: tariff policy; specific tariffs; ad valorem equivalence; tariff peaks.

World Bank Policy Research Working Paper 4265, June 2007

The Policy Research Working Paper Series disseminates the findings of work in progress to encourage the exchange of ideas about development issues. An objective of the series is to get the findings out quickly, even if the presentations are less than fully polished. The papers carry the names of the authors and should be cited accordingly. The findings, interpretations, and conclusions expressed in this paper are entirely those of the authors. They do not necessarily represent the view of the World Bank, its Executive Directors, or the countries they represent. Policy Research Working Papers are available online at <http://econ.worldbank.org>.

Corresponding author

David Tarr, email dtarr@worldbank.org

The World Bank, MSN MC 3-303, 1818 H St., N.W., Washington D.C. 20433

Oleksandr Shepotylo email: shepotylo@gmail.com

Economics Education and Research Consortium and Kiev Economics Institute

The structure of import tariffs in the Russian Federation: 2001-2005

Oleksandr Shepotylo, Economics Education and Research Consortium and
Kiev Economic Institute

David Tarr, Consultant and Former Lead Economist, The World Bank¹

I. Introduction

What is the *structure* of the most-favored nation (MFN) tariff of Russia? How has it been changing over time? What are the sectors in which tariffs are high or low? How diverse is the tariff structure of Russia? Surprisingly, these questions have not been answered to date due to a lack of data that would allow calculation of the ad valorem equivalents of the specific Russian tariffs. The problem reflects a wider problem in the international trade literature: although we are making progress, to date we do not have a set of internationally comparable tariff rates for countries that use specific tariffs.²

We have obtained a new data set that we describe below. As a result of these new data, we are able to calculate the ad valorem equivalents of the specific tariffs. This allows us to provide the first detailed and accurate assessment of the tariff structure of Russia. We are able to assess, for the years 2001-2005, the actual number of tariff lines in which specific tariffs apply, the tariff lines with the highest tariffs, and investigate many other properties of the Russian tariff structure for the first time. We calculate and focus on the MFN tariffs. In an appendix to Shepotylo and Tarr (2007), we also provide an

¹ We thank Timour Koudoyarov for extensive assistance, Francis Ng for provision of table 2, Andrei Kushnirenko of the Russian Ministry of Economic Development and Trade and Professor Alexander Daniltsev of the Higher School of Economics and State Management University of Moscow for extensive and helpful comments. We thank Maria Kasilag for logistical support. The views expressed are those of the authors and do not necessarily reflect the views of the Russian government or those cited, nor do they necessarily reflect the views of the World Bank or its Executive Directors.

² We provide the best available summary international comparisons table on tariff rates in table 2 below. The WITS is in the process of developing the capability to provide average tariff information across countries even if countries use specific tariffs, and some independent researchers have made calculations that would allow such international comparisons.

estimate of the collected tariff rates where we adjust for the fact that most imports from CIS countries enter with zero tariffs.

Briefly, our key results are the following. The average tariff in Russia has increased between 2001 and 2003 from about 11.5% to between 13% and 14.5%, but it has held steady in 2004 and 2005. This places Russia's tariffs at a level slightly higher than other middle-income countries and considerably higher than the OECD countries. The tariff structure became much more diverse between 2001 and 2003, but the dispersion of the tariff moderated in 2004 and 2005. Notably the trade weighted standard deviation of the tariff approximately doubled from 9.5 percent in 2001 to 18 percent in 2003, but then fell to 15.2 percent by 2005. "Tariff peaks," that is, tariff lines with very high tariffs, are more of a problem in 2005 than in 2001, but less so than in 2003. The reason for the increase in the tariffs is the specific tariffs, as the ad valorem rates have not increased. More tariff lines are subject to specific tariffs in 2003-2005 than in 2001, and the appreciation of the euro, relative to 2001 has increased the ad valorem equivalent of the specific tariffs. The food sector and light industry are the aggregate sectors with the highest tariff rates—their tariff rates in 2005 were 23.1% and 19.5% on a trade-weighted basis. At the two digit level, motor vehicles, footwear, leather products and sugar are among the most highly protected.

Regarding the previous efforts to assess the Russian tariff regime, Tarr (1999) has assessed the average level of the Russian tariff and the degree of tariff escalation by stage of production. Afontsev has used a Grossman-Helpman model in a few papers on Russian tariff policy. In Afontsev (2002), he assessed to extent to which industrial lobbying, consumer welfare or government revenue can explain the formation of Russian tariff policy in 1992-1997. Afontsev (2004) assesses the motivation of the government for the tariff unification policy of 2000-2001. In addition, there are several unpublished efforts to assess the average MFN tariff level in Russia.³

Although the previous studies of the Russian tariff have provided a reasonable assessment of the Russian ad valorem tariffs, previous efforts have been hampered by two problems: (1) about ten to fifteen percent of the tariff lines of Russia use a "combined" tariff rate system. For these tariff lines, both ad valorem and specific tariffs are indicated, and the actual tariff applied by Russian customs is the maximum of the

³ Staff of both the World Bank and the International Monetary Fund have calculated the average Russian tariff on several occasions. We briefly discuss those results below.

two. To know the actual tariff, where specific tariffs are specified, we must calculate their ad valorem equivalents. This is a non-trivial task, and some previous *unpublished* efforts have simply ignored the specific tariffs, resulting in an underestimate of the actual tariff rates; and, more importantly, (2) until recently, tariff line data on the value and quantity of imports have not been available, and the available more aggregated data were not available electronically.⁴ Consequently, earlier calculations were necessarily based on aggregates of tariff lines. Thus, these studies were simply not capable of assessing the tariff rates except at somewhat aggregate levels, and since the calculations were based on averages, the results were imprecise.

In section II we discuss our key results. We calculate average tariffs and standard deviations based on an unweighted basis and also an import trade weighted basis. In section III we discuss the data set. We discuss methodology in section IV. The key results are presented in tables 1-8. We have a one-page note on technical details in the calculations following the tables. In Appendix A, we present tables with more detailed results, namely of 2-digit industry calculations and the tariff lines with tariff rates above 50%. In Appendix B, we provide a second set of parallel tables we call the “estimated collected tariff rates.” These tables reflect the fact that imports from CIS countries enter tariff free with some notable exceptions, so the collected tariff rate is lower than the MFN rate.⁵

As we discuss the results, we evaluate the trends in the tariff structure based on the view, elaborated by Tarr (2002), that low and uniform tariffs are preferable to high and diverse tariffs. This paper is methodological and descriptive; so the reader interested in a discussion of tariff policy should consult Tarr (2002) and as applied to Russia Tarr (1999).⁶

⁴ The previous data available were the annual hard copy reports of the Russian Customs Committee. These reports aggregate information from the tariff line level, so that information is reported on about 1700 aggregated product codes out of about 11,000 tariff lines. Previously, we manually entered these data in order to perform the calculations that were possible with those data.

⁵ In addition, personal imports and private imports enter tariff free. Since we do not have data on personal and private imports we do not adjust our computations of the estimated collected tariff rates for these imports. Thus the actual collected tariffs are less than our estimate.

⁶ For other discussions of trade policy in Russia, the reader should consult Michalopoulos and Tarr (1994, 1996, 1997), Tarr (1993, 1994) and Tarr and Thomson (2004).

II. Results

1. The average MFN tariff rate has been increasing.

In table 1, we show the average MFN tariff rate in Russia calculated both as a simple average and as a trade weighted average. The trade weighted average tariff has increased from 11.4% in 2001 to 14.3% in 2003, but fell slightly to 14.0% in 2005. The simple (unweighted) average increased from 11.7% in 2001 to 12.2% in 2002 to 12.8% in 2003, but fell to 12.4% in 2004 and 12.1% in 2005. This shows that tariffs have increased faster on the products imported more intensively.⁷

To be clear, Let V_i be the value of imports of tariff line i and V be the total value of imports. That is, $V = \sum_i V_i$. Define the share of sector i in total imports as $\alpha_i = V_i / V$.

Let t_i be the MFN tariff rate that we calculate for tariff line i . Then the weighted average MFN tariff that we calculate is: $t^* = \sum_i \alpha_i t_i$. And the simple or unweighted average tariff is $t' = \sum_i (t_i/n)$ where n is the number of tariff lines.

2. The tariff structure has become more diverse (less uniform).

The standard deviation of MFN tariffs has been increasing more than the mean of the tariff, especially on a trade weighted basis. On a trade weighted basis, the standard deviation increased from 9.5 in 2001 to 15.2 in 2003, after peaking in 2003 at 18.0; on an unweighted basis the standard deviation of the tariff increased from 10.8 in 2001 to 18.7 in 2003, but the standard deviation fell to 12.7 by 2005.

The increase in the standard deviation implies that the Russian tariff structure has become more diverse, so that there are more highly protected sectors and more sectors with very low tariffs. Russia implemented a tariff simplification reform in 2000-20001, in which a significantly reduced number of ad valorem tariff rates were employed. Our calculations show that tariff simplification should not be confused with tariff uniformity or reduced variance of the tariff structure, as the tariff simplification did not prevent a movement to a less uniform tariff structure, especially in the 2001-2003, the two years immediately following the tariff simplification.

⁷ Another possible explanation is that the structure of imports has shifted toward products with higher tariffs.

Since the distortion costs of a tariff rise more than proportionally with the level of the tariff, a diverse tariff structure typically imposes significant inefficiency costs on a country. Also, the more diverse the tariff structure, the more incentive there is for lobbying and rent-seeking behavior which typically leads to tariff setting policies that are very inefficient. For these and other reasons, we generally view a movement toward a more diverse tariff structure as counterproductive to the long-term growth prospects of a country.⁸

3. The Russian tariff structure is likely slightly higher than that of other middle-income countries

To put these numbers in perspective, we present in table 2 calculations of the average MFN applied tariffs of 158 countries. The table shows that tariffs of middle income countries average 9.6 percent, which is somewhat lower than Russia in 2003. Tariffs of lower income countries average 13.3 percent and tariffs of high income OECD countries average 3.4 percent. We must, however, be cautious in drawing strong conclusions from these data, since the data for many of the countries in table 2 are not comparable to the data for Russia. This is because the calculations in table 2 ignore tariff lines with specific tariffs. For countries with specific tariffs, this is likely to (but does not necessarily) bias the results downward.⁹ Indeed, in the case of Russia, the estimates are biased down by about 1.3 (2.8) percent on an unweighted (trade weighted) basis according to our calculations.

4. The food sector and light industry are the aggregate industries that are the most highly protected —their average trade weighted tariffs are about 27 and 20 percent, respectively.

In table 3, we present the tariff rates at a rather aggregate level of sixteen industries. Light industry and food stand out as the most highly protected, especially on a trade weighted basis. Construction materials and paper products are the next most

⁸ See Tarr (2003) for a thorough discussion of the advantages and disadvantages of a uniform tariff.

⁹ The average tariff is not necessarily biased downward, since the average tariff on the tariff lines subject to only ad valorem tariffs could be higher than the average tariff on all tariff lines, including the tariff lines with specific tariffs. But specific tariffs often apply on tariff lines with higher protection. The tariffs on European Union agricultural products are a striking case in point. Actual tariffs are likely considerably higher than the reported 5.9% in the table due to the fact that the calculations in the table ignore tariff lines with specific tariffs.

protected aggregate sectors of the economy. In table 4, we show that tariff peaks (tariffs above 20 or 30 percent) are most commonly found in light industry, food and in mechanical engineering and metalworking.

Based on data from the State Customs Service, the value of imports has fallen in these two sectors from 2001. Based on an index of 100, the value of textile and footwear imports (the principal light industry sectors) was 125 in 2001 and fell to 117 in 2003 and 110 in 2005. Similarly, but less dramatically, the value of food sector imports fell from 122 in 2001 to 109 in 2003 and 115 in 2005. The decline in imports in these sectors, however, did little to boost production. The index of production of textiles was essentially unchanged between 2001 and 2005, while there was a three percent increase in the production of leather goods in the same time period. In the food sector, output fell by 2.5 percent between 2001 and 2005.

5. There are numerous sectors at the two digit industry level with tariffs greater than 20 percent. Meat, sugar, apparel, footwear, leather products and motor vehicles are among the most highly protected.

Considerable variance in the tariff rates exists at the two digit level of aggregation. The following sectors that have an average unweighted tariff of 20 percent or more (the average is over all tariff lines within the two-digit category): meats, edible offal (29%); meat and fish preparations (35%); sugar (24%); beverages and vinegar (21%); glues (20%); articles of leather (28%); carpets (20%); apparel (21%); footwear (27%); hats (20%); umbrellas (20%); clocks and watches (29%); furniture (21%); feathers (23%). On the other hand, most mineral products had low tariff barriers throughout the period. Appendix table A1 provides the data for all the two digit industries.

6. Tariff peaks at the *tariff line* level (ten digit level) are very high. In 2005, the MFN tariff rates exceeded 100 percent for 27 tariff lines and exceeded 50 percent for 113 tariff lines.

In table 5, we present the distribution of tariff rates in Russia. These are the results of our calculations of tariffs at the tariff line level (the ten digit level in Russia). In 2005, we can see that there were 27 tariff lines with tariff rates of 100 percent or more. Still another 86 tariff lines have tariff rates above 50 but less than 100 percent. But about 94 percent of the tariff rates are less than 25 percent, 83 percent are less than 20 percent, and 41 percent of the tariff lines have tariff rates less than ten percent. Clearly there is a lot of variance in the tariff structure.

In Appendix table A2, we list the ten digit tariff lines with tariffs in excess of 50 percent. Used cars typically have the highest tariff rates—there are five tariff lines for used cars with tariff rates above 200 percent in 2005. There are also several categories of fish, meat, sugar, alcohol, clocks and watches and clothing with tariff lines with tariffs in excess of 50 percent.

7. When we aggregate tariff lines to the six digit level, there were 60 sectors with tariff rates in excess of 50 percent in 2005.

Aggregation of the raw ten digit tariff line data, which is an averaging process, reduces the variance in the tariffs and chops down the tariff peaks. So the more disaggregated the data, the more we will find high tariffs. Nonetheless, at the six digit level of aggregation, there are 178 product lines with tariffs 30 percent or higher. The sectors of 100% or more are: caviar (280%); lobster (171%); shrimps and prawns (153%); shrimps and prawns (153%), floor coverings from other plastics (141%); beer from malt (138%); ensembles of other textile materials (117%), wrist watches, others, electrically operated (112%), used clothing (105%); undenatured ethyl alcohol with 80% or higher alcohol content (100%); ethyl alcohol, denatured (100%). Details are in table A3 of Sheptoylo and Tarr (2007).

8. Russia has been increasingly using specific tariffs as part of its tariff policy—most of the increase in the use of specific tariffs has been in the food industry.

In table 6, we show that the total number of tariff lines subject to the combined system of tariffs has increased by 183 tariff lines, from 1,609 in 2001 to 1,792 in 2005. About 80 percent of the increase in the number of specific tariffs is due to the increase in specific tariffs in the food industry, where an additional 148 tariff lines are subject to the combined system in 2005 compared with 2001. We regard this as a negative trend, since

specific tariffs are generally considered inefficient compared to ad valorem tariffs for two reasons: ad valorem tariffs are more transparent; and specific tariffs distort the choice of product within a category toward higher priced products. For example, a specific tariff of one euro per liter of wine is a very high percentage of the price of inexpensive wine, but a low percentage of the price of expensive wine. Consequently, specific tariffs would have the effect of switching the purchases of some consumers toward more expensive wines.

It is, however, the explicit policy of the Russian government to employ specific tariffs for this purpose. That is, specific tariffs are employed with the purpose of applying greater tariff protection against low priced imports.

9. Where specific tariffs apply, they tend to be considerably higher than the ad valorem component of the tariff.

In table 7, we list the ad valorem equivalent of the specific tariffs by sector. We only consider tariff lines that are subject to specific tariffs in the calculations. In 2005, there were three aggregate sectors with an average specific tariff of 30% or higher: food; timber, wood, pulp and paper; and other goods producing industries.

The ad valorem component of the tariff is usually between 5 and 20 percent.

If we examine only the ad valorem part of the tariff rates, we see that about 98 percent fall in the range of 5 to 20 percent. The government abandoned 40% ad valorem tariff rates on sugar in 2003, but replaced it with a specific tariff.¹⁰ However, in 2003, the government introduced 60% and 80% tariff rates on meat and meat products. The highest rate of 100% is set on the import of some types of alcohol and this rate has remained unchanged throughout the period our sample period. Table 8 and Table 1 show that there was no significant change in ad valorem rates in 2001-2005. The average unweighted valorem rates in 2001-2005 were either 10.9% or 10.8%. That is, the ad valorem rates have not increased. The increase in the average tariff rates and the variance in the tariff rates over this period are due to the specific tariff component of the tariff structure.

III. Data sources

¹⁰ The specific tariff on sugar ranges from \$194 to \$270 per ton.

Trade Data (Values and Quantities of Imports)

Data on the quantity and value of imports for each of the five years of our sample were acquired from the electronic database of the commercial company Academy-Service.¹¹ This dataset provides information on the Russian tariff structure at the tariff line level, i.e., the 10-digit level.

For the year 2003, we received a comparable dataset from the Ministry of Economic Development and Trade. At the request of the Ministry, we recalculated all results with the data provided from the Ministry and compared the results with the database from the commercial firm Academy Service. We found the results to be extremely close. We examined the few cases of discrepancies and concluded that the differences were due to the fact that the company Academy Service corrected for outlier errors in the reported data from the Customs Service.

Tariff data

The source of information on tariff rates is the Decree of the Government of Russian Federation on import duties #830.¹² The decree is available, for example, at www.base.consultant.ru

IV. Methodology for calculation of the tariff rates.

MFN Tariff Rates

Most tariffs in the Russian Federation are simple ad valorem tariffs. For these tariff lines, the MFN tariff is straightforward and no calculations are necessary.

However, between 1,609 and 1,792 tariff lines out of 11,000 plus tariff lines had a potential specific tariff component. Most of these tariff lines with a potential specific tariff component were subject to a combined tariff structure. For most products with the combined tariff, the maximum of the two tariffs is the tariff that applies.¹³ For these tariff lines we adopt the following methodology for calculation of the tariff.

¹¹ <http://www.ftinform.com>.

¹² We looked at five editions of the decree: first, dated by 11.30.2001 for 2001; the second, dated by 02.06.2003 for 2002 rates, for 2003, 2004 and 2005, we took December 31 of the respective year.

¹³ Footwear is an exception where the sum of the specific and ad valorem tariffs is applied and there are a limited number of tariff lines where only specific tariffs apply.

We calculate tariff revenues at the tariff line level first assuming all imports pay the ad valorem tariff rate and then also calculate tariff revenues at the tariff line level assuming all imports pay the specific tariff. We then take the maximum of the two values as our MFN tariff. Our MFN tariff divided by the value of imports for the tariff line is the tariff rate for the tariff line. (The formulas are below.)

Data are available on the quantity of imports in physical units and the value of imports. These data are also available by country or region of origin. In addition, we have the specific tariff and ad valorem tariff rates. Since we are interested in the MFN tariff, we focus on the non-CIS data, since CIS imports enter tariff free for the most part.¹⁴

The methodology is as follows.

For each tariff line with a combined system, we first calculate unit values at the tariff line level. The value of imports is reported in US dollars, so the unit values are in US dollars.

1. Unit value = (value of imports from non-CIS countries)/(quantity of imports from non-CIS countries)

Then we calculate tariff rate per unit assuming that the ad valorem tariff rate applies.

2. Tariff per unit if ad valorem = (ad valorem rate) * (unit value)

We also calculate the tariff rate per unit assuming that the specific tariff applies. Since specific tariffs are defined in euros per unit, we need to convert euros to US dollars to be comparable with the unit value data. ER is the exchange rate in US\$ per euro.¹⁵

¹⁴ In addition to the CIS agreement, Russia has both customs union agreements in place with several CIS countries, namely, Kazakhstan, Belarus, Kyrgyzstan, Uzbekistan and Tajikistan (with selected application of the common external tariff applying in all countries) as well as bilateral free trade agreements with others. Despite these agreements there are exceptions to the principle of tariff free access to the Russian market by CIS exporters, but these exceptions are reportedly not common.

¹⁵ We applied the average for the year exchange rate from the IMF Financial Statistics. Specifically, the dollars per euro exchanges rates we took were the following: 0.8 in 2001; 0.95 in 2002; 1.2 in 2003; 1.24 in 2004; and 1.33 in 2005. Since specific tariffs are defined in euros and the trade data are denominated in US dollars, the appreciation of the euro against the US dollar has the tendency to increase the ad valorem equivalence of the specific tariff. This is because if the initial contracts are defined in US dollars (such as many imports from the US), then the appreciation of the euro against the US dollar increases the specific tariff in dollars and the ad valorem equivalence of the specific tariff. But if the initial contracts are defined in euros, such as many contracts from the euro zone, the change in the exchange rate will not affect the ad valorem equivalence of the specific tariff. This is because the trade data are converted to US dollars at the same exchange rate as the conversion of the specific tariff. That is, the ad valorem equivalence of the

3. Tariff per unit if specific tariff = (specific tariff per unit) * ER * unit value

The tariff per unit that applies is then the maximum of the ad valorem or specific tariff rate; dividing the tariff per unit by the unit value yields the actual tariff rate.

4. Actual MFN tariff rate per unit = max {ad valorem tariff per unit, specific tariff per unit}/unit value¹⁶

In the tables, we typically multiply the above actual tariff rate by 100 to report the rates in percentage terms.

Given that imports from the CIS typically enter duty free, we also calculate the estimated collected tariff rate by assuming that all CIS imports enter duty free.

5. Estimated collected tariff rate =(MFN tariff rate)*(value of imports from non-CIS countries)/(value of imports from all countries)

We discuss this estimate below.

Weighted Average Overall Tariff Rates

For the overall tariff rates, we take both a simple average of the tariff rates on the tariff lines as well as a weighted average, where the weights are the shares of the total value of imports of each tariff line. With the weighted average calculation the more important import categories receive higher weights. The problem with the weighted average approach is that very high tariffs discourage and may eliminate imports. Then the weight of these high tariffs will be zero. Although both approaches have their merits and problems, unless otherwise stated, our results are based on simple averages.

Estimated Collected Tariffs

Collected tariffs are less than the MFN tariff because of a several exemptions in the Russian tariff structure. Most notably, CIS imports usually enter tariff free (although

specific tariff is the ratio of the unit value in dollars to the specific tariff in dollars and the exchange rate is in both the numerator and denominator and thus cancels.

¹⁶ If the sum of the two tariffs is applied, then
MFN tariff rate per unit = {tariff per unit if ad valorem + specific tariff per unit}/unit value.

there are exceptions to this rule)¹⁷ and personal and private imports also enter tariff free. We also provide estimates of the tariff rates where we adjust for zero tariff collections on CIS imports. That is, in the above formulas for calculating the tariff on a tariff line, we set ad valorem and specific rates on imports from the CIS countries equal to zero to take into account the special trade regime within the CIS. *We call these calculations our estimated collected tariff rates.* In appendix B we produce tables comparable to tables 1 and 3-8. The overall estimated collected tariff rates are lower than the MFN rates by about one percent.

Comparison of the collected rates based on our calculations with actual collected rates based on Ministry of Finance data

According to our calculations, the overall collected rate was equal to 10.5% in 2001, 11.0% in 2002, 11.5% in 2003, 11.2% in 2004 and 11.0% in 2005. On the other hand, the actual collected rate was 9.5% in 2001, 9.7% in 2002, and 9.8% in 2003. The difference can be attributed to the fact that we did not take into account any exemptions other than the CIS free trade zone exemption.

To calculate actual collected rate, we used the Ministry of Finance data on collected import duties as a numerator. As a denominator, we used the overall import volume less imports from Belarus as reported by the Russian Customs Committee¹⁸.

Comparison of the collected rates based on our calculations with earlier estimates

Prior to the acquisition of the dataset for trade data described above, World Bank staff used the official publication of the Russian Customs Committee, namely “Customs Statistics of the External Trade of the Russian Federation.” This required the manual entry of the data. But this publication does not provide tariff line data—only data aggregated at various levels, typically to six or four digits, with a total of about 1,700 lines, as opposed to about 11,000 in the electronic dataset.

We find that both approaches identify the food industry and light industry as the sectors with the highest tariff rates. The overall collected tariff rate in 2001, based on the Customs Committee publication, was estimated at 8%, as opposed to our estimate of 10.5% or 10.6% if trade weighted. We attribute the differences to the level of

¹⁷ Imports of sugar from Ukraine are a case in point.

¹⁸ The exclusion of the imports from Belarus is determined by the fact that the electronic dataset which we used in the calculations reported import volume without imports from Belarus.

aggregation, where the Customs Committee publication does not provide enough detail to provide a precise estimate.

References

- Afontsev, Sergey (2004), "The Political Economy of Tariff Unification," Economics Education and Research Consortium, Working Paper number 04/12E, Moscow, Russia. Available in Russian and English at http://www.eerc.ru/details/download.aspx?file_id=3766
- Afontsev, Sergey (2002), "Endogenous Tariff Protection and the Level of Trade Distortions in Russia," Economics Education and Research Consortium, Working Paper number 01/07, Moscow, Russia. Available in Russian and English at http://www.eerc.ru/details/download.aspx?file_id=3583.
- Michalopoulos, Constantine. and David.G.Tarr (1994), *Trade in the New Independent States*. Studies of Economies in Transformation No. 13. World Bank, Washington DC
- Michalopoulos, Constantine. and David.G.Tarr (eds) (1996), "'Trade Performance and Policy in the New Independent States," in the Directions in Development Series, Washington: The World Bank.
- Michalopoulos, Constantine. and David.G.Tarr (1997), "The Economics of Customs Unions in the Commonwealth of Independent States," *Post-Soviet Geography and Economics*, Vol. 38, No. 3, 125-143.
- Tarr, David (2002), "On the Design of Tariff Policy: Arguments for and Against Uniform Tariffs," in B. Hoekman, A. Mattoo and P. English (eds.), *Development, Trade and the WTO: A Handbook*, Washington: World Bank, 2002. Available in Russian at www.worldbank.org/trade/russia-wto.
- Tarr, David (1999) "Design of Tariff Policy for Russia" in Harry Broadman (ed.), *Russia's Trade Policy: Reform for WTO Accession*, Washington D.C.: The World Bank. Available in English and Russian at www.worldbank.org/trade/russia-wto.
- Tarr, David G. (1993)., "How Moving to World Prices Affects the Terms of Trade in 15 Countries of the Former Soviet Union", *World Bank Policy Research Working Papers*, WPS 1074.
- Tarr, David (1994), "The Terms-of-Trade effects of moving to world prices on countries Former Soviet Union", *Journal of Comparative Economics*, Vol.18, pp.1-24
- Tarr, David G. and Peter Thomson (2004), "The Merits of Dual Pricing of Russian Natural Gas," *The World Economy*, Vol. 27, Issue 8. August, 1173-1194.

Table 1 MFN Tariff rates ^(a)

Year	Tariff	Observations	Mean		Standard Deviation		Minimum rate	Maximum rate
			Simple	Trade weighted	Simple	Trade weighted		
2001	<i>Actual MFN tariff rate</i>	11,076	11.7	11.4	10.8	9.5	0	518
	<i>Ad valorem rate only (b)</i>		10.9	10.5	6.0	6.5	0	100
2002	<i>Actual MFN tariff rate</i>	11,148	12.2	13.3	13.7	14.9	0	483
	<i>Ad valorem rate only</i>		10.8	11.2	6.0	8.0	0	100
2003	<i>Actual MFN tariff rate</i>	11,161	12.8	14.3	18.7	18.0	0	1270
	<i>Ad valorem rate only</i>		10.9	10.3	6.9	6.8	0	100
2004	<i>Actual MFN tariff rate</i>	11,218	12.4	14.1	13.3	17.0	0	293
	<i>Ad valorem rate only</i>		10.9	11.1	6.9	7.3	0	100
2005	<i>Actual MFN tariff rate</i>	11,365	12.1	14.0	12.7	15.2	0	470
	<i>Ad valorem rate only</i>		10.8	11.2	7.0	7.8	0	100

Notes: (a) Table 1 presents summary statistics at the ten digit level

(b) The ad valorem rate only calculations ignore specific tariffs, i.e, assume that specific tariffs are zero.

Table 2a: Average MFN Applied Tariffs by Major Sector in Recent Years											
Code	Country/Group ^a	Average Tariff Rate (unweighted in %) ^a				Code	Country/Group ^a	Average Tariff Rate (unweighted in %) ^a			
		Year	All Goods	Agriculture	Manufactures			Year	All Goods	Agriculture	Manufactures
Low Income Countries						Middle Income Countries					
1	Angola	2005	7.6	11.9	7.1	2	Albania	2005	6.3	8.7	6.0
1	Bangladesh	2005	16.8	15.5	17.0	2	Algeria	2005	15.8	19.5	15.5
1	Benin	2005	14.4	16.7	14.1	2	Antigua and Barbuda	2004	9.6	14.7	8.8
1	Bhutan	2005	22.2	47.7	17.7	2	Argentina	2005	10.6	9.2	10.7
1	Burkina Faso	2005	13.1	15.4	12.9	2	Armenia	2006	3.3	6.3	3.0
1	Burundi	2005	19.6	27.2	18.6	2	Azerbaijan	2005	10.4	13.4	10.1
1	Cambodia	2003	16.0	20.5	15.6	2	Barbados	2004	16.0	37.1	11.7
1	Cameroon	2005	18.3	23.4	18.0	2	Belarus	2004	10.3	10.8	10.1
1	Central Africa Rep.	2005	17.9	23.7	17.4	2	Belize	2003	12.7	20.9	11.7
1	Chad	2005	17.2	24.4	16.5	2	Bolivia	2005	7.2	7.7	7.2
1	Congo Dem Rep.	2004	12.0	13.1	11.9	2	Bosnia and Herzegovina	2006	7.7	4.5	7.9
1	Congo Rep.	2005	19.1	24.6	18.5	2	Botswana	2005	8.9	3.6	9.1
1	Cote d'Ivoire	2005	12.6	16.6	12.1	2	Brazil	2005	12.3	9.7	12.4
1	Equatorial Guinea	2005	18.9	26.0	18.0	2	Bulgaria	2005	10.6	22.1	9.9
1	Ethiopia	2006	16.5	23.0	16.1	2	Chile	2005	4.9	4.4	4.9
1	Gambia	2003	12.8	15.5	12.4	2	China	2005	9.2	14.8	8.9
1	Ghana	2004	13.1	17.9	12.6	2	Colombia	2005	11.9	13.5	11.8
1	Guinea	2005	14.2	17.7	13.8	2	Costa Rica	2005	7.0	12.5	6.6
1	Guinea-Bissau	2005	14.1	17.5	13.6	2	Croatia	2005	2.4	6.8	2.1
1	Haiti	2003	9.0	..	..	2	Cuba	2005	10.5	13.1	10.3
1	India	2005	16.0	37.9	14.6	2	Czech Rep.	2004	4.9	10.0	4.1
1	Kenya	2005	12.1	18.5	11.6	2	Djibouti	2002	30.9	19.9	32.5
1	Kyrgyz Rep.	2003	4.3	7.6	3.9	2	Dominica	2003	14.6	26.2	12.8
1	Lao PDR	2005	9.2	23.1	8.5	2	Dominican Rep	2005	9.0	14.4	8.5
1	Lesotho	2005	9.9	8.1	9.9	2	Ecuador	2005	11.8	13.3	11.7
1	Madagascar	2005	11.6	19.0	10.9	2	Egypt	2005	18.9	142.3	11.4
1	Malawi	2003	13.4	15.7	13.0	2	El Salvador	2005	6.4	13.0	5.8
1	Mali	2005	12.4	16.0	12.1	2	Estonia	2003	1.0	11.4	0.1
1	Mauritania	2006	11.5	14.3	11.1	2	Fiji	2004	7.9	10.4	7.5
1	Moldova	2006	4.3	9.3	3.8	2	Gabon	2005	19.9	25.0	19.2
1	Mongolia	2005	4.2	5.0	4.1	2	Georgia	2004	7.4	13.5	6.7
1	Mozambique	2005	13.1	18.7	12.6	2	Grenada	2003	12.9	19.8	11.9
1	Myanmar	2005	4.5	9.4	4.2	2	Guatemala	2005	6.7	10.9	6.4
1	Nepal	2005	14.7	15.9	14.5	2	Guyana	2003	12.1	22.4	10.9
1	Nicaragua	2005	6.8	12.4	6.3	2	Honduras	2005	6.7	11.2	6.3
1	Niger	2005	12.7	16.0	12.4	2	Hungary	2004	8.9	17.9	7.7
1	Nigeria	2005	11.6	17.2	11.2	2	Indonesia	2005	6.5	9.6	6.2
1	Pakistan	2005	14.6	17.0	14.4	2	Iran, Islamic Rep.	2004	18.7	21.8	18.6
1	Papua New Guinea	2005	6.1	17.6	5.0	2	Jamaica	2003	9.3	17.4	8.5
1	Rwanda	2005	17.2	12.8	17.6	2	Jordan	2005	12.3	17.4	11.7
1	Senegal	2005	14.0	16.1	13.8	2	Kazakhstan	2004	2.3	3.6	2.2
1	Sierra Leone	2004	13.9	17.2	13.3	2	Latvia	2003	4.3	13.0	1.7
1	Solomon Islands	1995	34.5	40.7	34.0	2	Lebanon	2005	7.2	18.1	6.0
1	Sudan	2006	17.3	27.2	16.8	2	Libya	2006	0.0	0.0	0.0
1	Tajikistan	2004	7.8	9.4	7.7	2	Lithuania	2003	1.3	5.0	1.0
1	Tanzania	2005	12.9	21.3	12.2	2	Macedonia FYR	2005	4.1	13.7	3.5
1	Togo	2005	14.6	16.7	14.3	2	Malaysia	2005	7.5	3.3	7.9
1	Uganda	2005	12.4	18.2	12.0	2	Maldives	2005	21.3	17.3	22.1
1	Uzbekistan	2003	10.4	11.4	10.4	2	Mauritius	2005	8.5	12.1	8.1
1	Vietnam	2005	13.1	26.0	12.2	2	Mexico	2005	9.2	10.7	9.1
1	Yemen	2006	6.5	8.8	6.2	2	Morocco	2005	19.4	31.1	18.6
1	Zambia	2005	14.6	16.1	14.5	2	Namibia	2005	5.6	4.8	5.7
1	Zimbabwe	2003	16.7	24.4	16.0	2	Oman	2005	3.8	4.4	3.8
High Income Non-OECD Countries						2	Panama	2005	7.4	12.4	7.0
3	Bahamas	2006	28.6	20.9	29.7	2	Paraguay	2005	8.3	7.0	8.4
3	Bahrain	2005	4.5	6.7	4.2	2	Peru	2005	9.2	11.9	9.1
3	Brunei	2005	3.1	0.1	3.5	2	Philippines	2005	5.4	8.9	5.1
3	Cyprus	2002	6.0	24.7	4.7	2	Poland	2004	4.3	31.3	2.4
3	Hong Kong, China	2005	0.0	0.0	0.0	2	Romania	2005	6.6	19.3	5.6
3	Israel	2005	2.3	6.1	2.0	2	Russian Fed.	2005	10.1	9.7	10.1
3	Kuwait	2005	4.7	3.6	4.8	2	Saudi Arabia	2005	4.1	2.9	4.3
3	Macau, China	2004	0.0	0.0	0.0	2	Serbia & Montenegro	2005	8.2	17.1	7.3
3	Malta	2003	6.7	6.1	6.7	2	Seychelles	2005	18.3	29.0	16.5
3	Qatar	2005	4.0	3.7	4.1	2	Slovak Rep.	2003	6.0	11.6	4.4
3	Singapore	2005	0.0	0.0	0.0	2	South Africa	2005	8.5	7.6	8.6
3	Slovenia	2003	4.3	9.5	3.8	2	Sri Lanka	2005	10.8	22.1	10.1
3	Taiwan, China	2005	5.5	11.6	5.0	2	St. Kitts and Nevis	2004	9.4	13.2	8.8
3	United Arab Emirates	2005	4.8	5.2	4.7	2	St. Lucia	2005	12.6	18.7	11.8
High Income OECD Countries						2	St. Vincent	2004	9.8	15.7	8.9
4	Australia	2005	4.3	1.6	4.5	2	Suriname	2000	15.3	25.6	12.4
4	Canada	2005	3.8	2.4	4.0	2	Swaziland	2005	10.8	11.4	10.8
4	European Union	2005	1.8	3.4	1.7	2	Syria	2003	14.7	14.4	14.5
4	Iceland	2006	2.6	3.7	2.5	2	Thailand	2005	10.5	20.8	9.8
4	Japan	2005	2.7	7.2	2.2	2	Trinidad & Tobago	2003	9.8	17.8	8.9
4	Korea, Rep.	2004	9.0	36.9	6.9	2	Tunisia	2005	13.4	42.6	11.9
4	New Zealand	2005	4.0	2.0	4.2	2	Turkey	2005	2.4	21.8	1.4
4	Norway	2006	0.5	3.5	0.2	2	Turkmenistan	2002	5.4	18.9	3.8
4	Switzerland ^c	2005	2.7	14.0	0.6	2	Ukraine	2006	4.8	6.7	4.7
4	United States	2005	3.1	3.8	3.0	2	Uruguay	2005	9.9	6.8	10.0
Memo Items: Average						2	Vanuatu	2002	17.0	22.2	16.3
1-2	Developing countries (134)	2002-2006	13.3	18.5	12.9	2	Venezuela	2005	12.8	14.2	12.7
1	Low Income (53)	2003-2006	13.3	18.5	12.9	Notes: ^a Based on simple average of MFN applied tariffs available in the latest year. Product categories are defined by HS classifications as all goods (HS 01-97), agricultural goods (HS 01-24), and manufacturing goods (HS 25-97). ^b Based on the classifications of income in WDI 2005; Figures in parentheses indicate numbers of countries/economies in the group. ^c Included ad-valorem equivalent of special tariffs					
2	Middle Income (81)	2002-2006	9.6	16.0	8.9						
3	High Inc. Non-OECDs (14)	2002-2006	5.3	7.0	5.2						
4	High Income OECDs (10)	2004-2006	3.4	7.8	3.0						
Sources: UNCTAD TRAINS database, WTO, IDB and CTS CD ROMs 2005 and Trade Policy Review, various issues, 1993-2005; and World Bank, World Development Indicators, 2005.											

Table 3. Average MFN tariff rates in Russia in 2001-2005 at industry level ^a

<i>Industry</i>	<i>Year</i>									
	<i>2001</i>		<i>2002</i>		<i>2003</i>		<i>2004</i>		<i>2005</i>	
	<i>mean</i>	<i>weighted mean</i>	<i>mean</i>	<i>weighted mean</i>	<i>mean</i>	<i>weighted mean</i>	<i>mean</i>	<i>weighted mean</i>	<i>mean</i>	<i>weighted mean</i>
<i>Electric industry</i>	5	5	5	5	5	5	5	5	5	5
	..	(0.0)	..	(0.0)	..	(0.0)	..	(0.0)	..	(0.0)
<i>Oil extraction</i>	5	5	5		5	5	5.0	5.0	5.0	5.0
	(0.0)	(0.0)	(0.0)		(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)
<i>Oil processing</i>	5.2	5.0	5.2	5.0	5.2	5.0	5.2	5.0	5.2	5.0
	(1.8)	(0.4)	(1.8)	(0.3)	(1.8)	(0.3)	(1.8)	(0.4)	(1.8)	(0.4)
<i>Gas</i>	5		5	5	5		5	5	5	5
	(0.0)		(0.0)	(0.0)	(0.0)		(0.0)	(0.0)	(0.0)	(0.0)
<i>Coalmining</i>	5	5	5	5	5	5	5	5	5	5
	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)
<i>Other fuel industries</i>	5	5	5	5	5	5	5	5	5	5
	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)
<i>Ferrous metallurgy</i>	8.0	8.7	8.0	9.0	8.0	9.9	8.0	11.0	8.0	10.4
	(4.8)	(5.2)	(4.8)	(5.3)	(4.8)	(5.6)	(4.8)	(6.)	(4.8)	(5.9)
<i>Non-ferrous metallurgy</i>	10.6	12.1	10.6	13.8	10.8	14.5	10.7	14.4	10.6	13.7
	(6.)	(6.7)	(6.)	(6.8)	(6.1)	(6.5)	(6.)	(6.5)	(6.)	(6.7)
<i>Chemicals and petrochemicals</i>	7.8	8.7	8.0	9.2	8.0	9.2	8.0	9.2	7.9	9.1
	(5.1)	(5.1)	(7.1)	(8.4)	(7.4)	(7.2)	(7.5)	(6.)	(6.9)	(5.1)
<i>Mechanical engineering and metal-working</i>	10.5	9.7	11.0	10.3	11.6	10.4	11.0	12.3	10.6	12.6
	(7.7)	(8.5)	(15.9)	(15.7)	(28.3)	(11.2)	(15.)	(11.4)	(13.8)	(12.3)
<i>Timber, wood, pulp and paper</i>	14.9	14.0	15.1	14.7	15.5	14.3	15.4	14.2	15.1	13.9
	(5.5)	(7.4)	(6.6)	(8.5)	(7.7)	(9.6)	(7.5)	(9.2)	(6.6)	(8.5)
<i>Construction materials</i>	13.5	14.3	13.6	14.7	13.6	15.5	13.4	15.3	13.4	15.4
	(5.2)	(5.)	(6.5)	(4.9)	(5.8)	(5.7)	(5.)	(5.)	(5.2)	(5.2)
<i>Light industry</i>	16.6	17.8	17.3	20.9	17.9	19.8	16.2	19.3	15.5	19.5
	(19.9)	(11.1)	(16.5)	(13.6)	(17.9)	(12.)	(11.2)	(9.8)	(8.1)	(8.4)
<i>Food industry</i>	14.5	16.0	14.9	20.3	16.4	26.1	16.7	23.3	16.3	23.1
	(10.9)	(11.2)	(16.1)	(16.6)	(17.)	(30.5)	(18.)	(31.8)	(19.)	(26.6)
<i>Other industries</i>	11.7	8.9	12.0	9.5	12.0	9.5	12.1	9.6	12.1	9.0
	(7.6)	(7.9)	(8.7)	(8.2)	(8.4)	(8.3)	(8.5)	(7.9)	(8.8)	(7.6)
<i>Agriculture and forestry</i>	7.8	8.8	9.2	13.7	9.8	15.7	9.5	14.5	9.1	13.3
	(5.8)	(6.)	(8.)	(12.)	(9.7)	(14.2)	(8.6)	(12.6)	(8.)	(11.1)
<i>Other goods-producing sectors</i>	18.6	10.0	18.2	6.6	18.3	7.1	17.8	6.4	17.3	9.7
	(16.)	(33.3)	(13.)	(24.)	(14.2)	(25.4)	(10.5)	(19.6)	(8.4)	(14.)

Notes: a Mapping from 10 digit codes to sectors is based on Goskomstat classification

b Standard deviation in parentheses

Table 4. Number of lines with actual rates above 20 and 30% and maximum rates by year and industry

<i>Industry</i>	<i>Year</i>									
	<i>2001</i>		<i>2002</i>		<i>2003</i>		<i>2004</i>		<i>2005</i>	
	<i>>20</i>	<i>>30</i>	<i>>20</i>	<i>>30</i>	<i>>20</i>	<i>>30</i>	<i>>20</i>	<i>>30</i>	<i>>20</i>	<i>>30</i>
<i>Non-ferrous metallurgy</i>	<i>0^a</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>1</i>	<i>1</i> 30 ^b	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>
<i>Chemicals and petrochemicals</i>	<i>8</i>	<i>3</i> 125	<i>14</i>	<i>10</i> 154	<i>19</i>	<i>13</i> 186	<i>17</i>	<i>10</i> 181	<i>14</i>	<i>5</i> 198
<i>Mechanical engineering and metal-working</i>	<i>51</i>	<i>18</i> 198	<i>59</i>	<i>38</i> 338	<i>63</i>	<i>44</i> 1270	<i>64</i>	<i>48</i> 293	<i>64</i>	<i>47</i> 278
<i>Timber, wood, pulp and paper</i>	<i>25</i>	<i>6</i> 69	<i>29</i>	<i>12</i> 94	<i>31</i>	<i>21</i> 78	<i>34</i>	<i>17</i> 79	<i>30</i>	<i>17</i> 63
<i>Construction materials</i>	<i>2</i>	<i>1</i> 48	<i>6</i>	<i>2</i> 81	<i>8</i>	<i>2</i> 60	<i>5</i>	<i>0</i> 29	<i>7</i>	<i>1</i> 30
<i>Light industry</i>	<i>161</i>	<i>68</i> 518	<i>244</i>	<i>107</i> 284	<i>271</i>	<i>144</i> 342	<i>228</i>	<i>81</i> 163	<i>173</i>	<i>59</i> 85
<i>Food industry</i>	<i>256</i>	<i>93</i> 193	<i>295</i>	<i>101</i> 483	<i>370</i>	<i>158</i> 323	<i>370</i>	<i>163</i> 256	<i>341</i>	<i>162</i> 470
<i>Other industries</i>	<i>2</i>	<i>1</i> 39	<i>3</i>	<i>3</i> 63	<i>3</i>	<i>3</i> 54	<i>4</i>	<i>3</i> 57	<i>4</i>	<i>3</i> 67
<i>Agriculture and forestry</i>	<i>2</i>	<i>2</i> 58	<i>25</i>	<i>22</i> 63	<i>31</i>	<i>22</i> 78	<i>32</i>	<i>19</i> 64	<i>26</i>	<i>14</i> 62
<i>Other goods-producing sectors</i>	<i>1</i>	<i>1</i> 124	<i>1</i>	<i>1</i> 99	<i>1</i>	<i>1</i> 109	<i>1</i>	<i>1</i> 76	<i>1</i>	<i>1</i> 54

Notes: a Number of lines

b The highest rate in % in the subcategory

Table 5. Distribution of MFN tariff rates in Russia in 2001-2005

			2001		2002		2003		2004		2005	
Actual rate range, %			<i>Frequency^a</i>	<i>Percent^b</i>	<i>Frequency</i>	<i>Percent</i>	<i>Frequency</i>	<i>Percent</i>	<i>Frequency</i>	<i>Percent</i>	<i>Frequency</i>	<i>Percent</i>
0	to <	5	88	0.79	109	0.98	113	1.01	115	1.03	234	2.06
5	to <	10	4,324	39.04	4,414	39.59	4,379	39.24	4,414	39.35	4,410	38.8
10	to <	15	1,927	17.4	1,912	17.15	1,900	17.03	1,943	17.32	1,950	17.16
15	to <	20	2,901	26.19	2,810	25.21	2,816	25.23	2,765	24.65	2,823	24.84
20	to <	25	1,456	13.15	1,398	12.54	1,333	11.94	1,435	12.79	1,447	12.73
25	to <	30	183	1.65	212	1.9	208	1.86	200	1.78	189	1.66
30	to <	35	61	0.55	91	0.82	68	0.61	89	0.79	95	0.84
35	to <	40	23	0.21	44	0.39	89	0.8	60	0.53	50	0.44
40	to <	45	34	0.31	39	0.35	56	0.5	37	0.33	30	0.26
45	to <	50	17	0.15	25	0.22	30	0.27	16	0.14	24	0.21
50	to <	55	7	0.06	11	0.1	23	0.21	18	0.16	12	0.11
55	to <	60	7	0.06	10	0.09	21	0.19	14	0.12	7	0.06
60	to <	65	3	0.03	8	0.07	25	0.22	26	0.23	20	0.18
65	to <	70	5	0.05	10	0.09	10	0.09	4	0.04	9	0.08
70	to <	75	5	0.05	1	0.01	12	0.11	5	0.04	2	0.02
75	to <	80	5	0.05	7	0.06	4	0.04	7	0.06	2	0.02
80	to <	85	4	0.04	8	0.07	15	0.13	23	0.21	21	0.18
85	to <	90	4	0.04	4	0.04	6	0.05	4	0.04	6	0.05
90	to <	95	2	0.02	2	0.02	6	0.05	2	0.02	4	0.04
95	to <	100	1	0.01	2	0.02	4	0.04	1	0.01	3	0.03
100	to <	150	13	0.12	14	0.13	25	0.22	16	0.14	13	0.11
150	to <	200	4	0.04	7	0.06	5	0.04	15	0.13	6	0.05
200	to <	250	0	0	1	0.01	3	0.03	4	0.04	3	0.03
250	to <	300	0	0	4	0.04	3	0.03	5	0.04	3	0.03
300	to <	350	0	0	3	0.03	5	0.04	0	0	0	0
350	to <	400	0	0	1	0.01	1	0.01	0	0	1	0.01
400	to <	450	1	0.01	0	0	0	0	0	0	0	0
450	to <	500	0	0	1	0.01	0	0	0	0	1	0.01
	>	500	1	0.01	0	0	1	0.01	0	0	0	0
Total			11,076	100	11,148	100	11,160	100	11,218	100	11,365	100

Notes:

a Number of lines at 10-digit level

b Percentage out of total number of product lines

Table 6. Number of tariff lines where non-zero specific tariffs may apply, by industry

<i>Industry</i>	<i>Year</i>				
	<i>2001</i>	<i>2002</i>	<i>2003</i>	<i>2004</i>	<i>2005</i>
<i>Non-ferrous metallurgy</i>		1a	8	8	8
<i>Chemicals and petrochemicals</i>	22	30	30	31	30
<i>Mechanical engineering and metal-working</i>	120	125	137	138	141
<i>Timber, wood, pulp and paper</i>	39	39	39	39	39
<i>Construction materials</i>	17	17	17	17	17
<i>Light industry</i>	598	596	596	596	596
<i>Food industry</i>	748	752	882	889	896
<i>Other industries</i>	9	9	9	9	9
<i>Agriculture and forestry</i>	50	50	50	50	50
<i>Other goods-producing sectors</i>	6	6	6	6	6
<i>Total:</i>	1609	1624	1774	1783	1792

Note: ^a Number of lines at 10-digit level with specific tariff greater than zero

Table 7. Average MFN ad valorem equivalent of the specific tariff rates by industry /a

<i>Industry</i>	<i>Year</i>									
	<i>2001</i>		<i>2002</i>		<i>2003</i>		<i>2004</i>		<i>2005</i>	
	<i>Un-weighted</i>	<i>Trade weighted</i>	<i>Un-weighted</i>	<i>Trade weighted</i>	<i>Un-weighted</i>	<i>Trade weighted</i>	<i>Un-weighted</i>	<i>Trade weighted</i>	<i>Un-weighted</i>	<i>Trade weighted</i>
<i>Non-ferrous metallurgy</i>	..	..	8.8	8.8	16.0	15.8	5.7	16.1	4.6	15.3
	..	..	..	(0.0)	(8.7)	(6.2)	(5.9)	(4.2)	(6.7)	(7.3)
<i>Chemicals and petrochemicals</i>	21.9	19.4	35.7	27.5	37.9	27.2	32.8	21.7	30.0	23.0
	(25.9)	(14.5)	(38.7)	(29.8)	(39.0)	(23.6)	(43.3)	(16.6)	(38.6)	(11.1)
<i>Mechanical engineering and metal-working</i>	25.6	21.9	44.4	28.3	55.8	25.7	43.8	27.0	40.0	28.7
	(30.4)	(17.9)	(70.8)	(40.8)	(136.5)	(25.5)	(64.0)	(15.8)	(58.4)	(17.2)
<i>Timber, wood, pulp and paper</i>	23.7	23.2	28.2	28.0	34.1	34.3	32.8	32.4	29.8	30.2
	(11.6)	(6.0)	(14.2)	(5.5)	(14.4)	(8.8)	(15.0)	(9.4)	(12.5)	(9.6)
<i>Construction materials</i>	16.5	16.5	20.4	19.0	19.1	23.1	16.4	22.2	17.8	23.3
	(9.3)	(3.7)	(16.9)	(3.4)	(13.3)	(5.6)	(6.7)	(3.9)	(6.6)	(3.7)
<i>Light industry</i>	17.5	14.5	21.0	20.8	25.0	24.6	18.1	19.3	15.5	16.8
	(32.5)	(15.1)	(24.4)	(16.3)	(26.4)	(13.8)	(14.5)	(9.0)	(9.1)	(7.2)
<i>Food industry</i>	21.4	20.9	21.8	27.6	26.0	39.6	26.1	35.2	25.4	33.7
	(19.2)	(12.4)	(29.7)	(18.2)	(28.2)	(36.4)	(29.6)	(40.7)	(32.6)	(32.8)
<i>Other industries</i>	32.2	34.9	46.4	41.5	44.5	46.5	32.5	34.1	34.1	32.9
	(10.1)	(6.6)	(16.0)	(10.4)	(8.6)	(7.3)	(20.7)	(7.5)	(23.2)	(10.4)
<i>Agriculture and forestry</i>	38.4	54.9	23.0	19.0	27.8	23.2	25.3	21.1	22.4	18.2
	(30.4)	(12.2)	(14.2)	(14.9)	(17.4)	(17.8)	(14.5)	(15.1)	(14.5)	(13.6)
<i>Other goods-producing sectors</i>	24.4	109.3	23.5	78.9	23.6	65.1	20.8	50.7	15.5	29.8
	(48.8)	(39.3)	(37.3)	(37.8)	(42.1)	(51.4)	(27.9)	(32.6)	(19.1)	(23.1)

Note:

a Ad valorem equivalent of the specific tariff is *(specific tariff rate*100)/(unit value)*.

Summary statistics is calculated for non-zero specific tariffs only.

b Standard deviations in parentheses

Table 8. Distribution of ad valorem components of MFN tariff rates in Russia in 2001-2003

Ad valorem rate, %	2001		2002		2003		2004		2005	
	<i>Frequency^a</i>	<i>Percent^b</i>	<i>Frequency</i>	<i>Percent</i>	<i>Frequency</i>	<i>Percent</i>	<i>Frequency</i>	<i>Percent</i>	<i>Frequency</i>	<i>Percent</i>
0	136	1.23	187	1.68	218	1.95	238	2.12	327	2.88
2.5	0	0	0	0	0	0	0	0	8	0.07
3	0	0	0	0	0	0	0	0	9	0.08
5	4,326	39.06	4,398	39.45	4,377	39.22	4,400	39.22	4,401	38.72
10	1,928	17.41	1,907	17.11	1,900	17.02	1,950	17.38	1,949	17.15
15	3,011	27.18	3,002	26.93	2,996	26.84	2,962	26.4	2,990	26.31
20	1,526	13.78	1,513	13.57	1,505	13.48	1,503	13.4	1,514	13.32
25	129	1.16	121	1.09	123	1.1	123	1.1	123	1.08
30	4	0.04	4	0.04	4	0.04	4	0.04	4	0.04
40	14	0.13	14	0.13	0	0	0	0	0	0
50	0	0	0	0	0	0	1	0.01	0	0
60	0	0	0	0	14	0.13	14	0.12	16	0.14
80	0	0	0	0	22	0.2	21	0.19	22	0.19
100	2	0.02	2	0.02	2	0.02	2	0.02	2	0.02
Total	11,076	100	11,148	100	11,161	100	11,218	100	11,365	100

Notes: a Number of lines at 10-digit level

b Percentage out of total number of product lines

Technical Notes

Conversion of units for specific tariffs

For some tariff lines with non-zero specific tariffs, the unit of measurement of the quantity of imports is different from the unit of measurement of the specific tariff. In order to compute the ad valorem equivalence of the specific tariff, we need a conversion factor that would allow use to use a common physical unit of measure for the quantity of imports and the unit of measurement of the specific tariff. The company Academia Service provided us with these conversion rates based on additional data they have available on imports for 2003. We applied this conversion rates to other years as well.

For some tariff lines, it was not possible for Academy Service to provide us with conversion factors. Since this made calculation of the ad valorem equivalent of the specific tariff impossible, we dropped these tariff lines from the calculations. As a result of this problem, we dropped the following seven tariff lines: 9401301000, 9401901000, 9403301100, 9403603000, 9404211000, 6910100000 and 6910900. The observation was dropped only if the tariff line at the 10-digit level had a specific tariff different from zero, there was difference in the units of measurement and we did not have conversion rate. If a tariff line was dropped for one year it was also dropped for all years.

Tariff rates for Chapter 87 of HS.

Specific tariffs for chapter 87 (vehicles other than railway or tramway rolling stock) are measured in Euros per 1 cc of engine volume. We do not have data to calculate the exact tariffs applied for each type of car. For tariff lines referring to cars whose engine capacity fall within a specified interval, we assume that engine capacity of each imported car is the average for this interval. For example, the tariff rate for tariff line 870322 (Other Vehicles, Spark-ignition Engine of a cylinder capacity exceeding 1,000 cc but not exceeding 1,500 cc) was calculated based on the average capacity 1,250 cc. For categories with an open-ended range such as cars with engine lower than 1,500 cc or cars with engine higher than 3,000 cc, we took the highest and the lowest capacity, respectively. This will overestimate the tariff rate for the first category and underestimate it for the second category.

Appendix A.: Tariff calculations at the detailed tariff line level

Table A1. Tariff rates at 2 digit level

HS code 2 digits	Type of products	Year				
		2001	2002	2003	2004	2005
1	<i>LIVE ANIMALS</i>	70 ^a 3.9 ^b (2.1) ^c	70 3.9 (2.1)	70 3.9 (2.1)	70 3.9 (2.1)	70 3.9 (2.1)
2	<i>MEAT, EDIBLE OFFAL</i>	256 20.2 (6.9)	256 20.8 (7.4)	292 29.3 (21.3)	292 28.3 (19.4)	300 29.1 (20.7)
3	<i>FISH, CRUSTACEANS</i>	338 10.3 (4.0)	338 11.2 (20.5)	338 10.4 (4.9)	339 10.2 (2.9)	339 10.1 (1.6)
4	<i>DAIRY PRODUCTS</i>	176 16.2 (4.6)	176 15.9 (2.8)	176 16.1 (3.7)	176 16.1 (4.0)	176 15.8 (3.7)
5	<i>ANIMAL PRODUCTS NES</i>	33 8.2 (2.4)	33 8.2 (2.4)	33 8.2 (2.4)	33 8.2 (2.4)	33 8.2 (2.4)
6	<i>LIVE TREES, PLANTS</i>	42 14.8 (10.2)	42 15.3 (8.6)	42 16.0 (10.2)	42 15.2 (8.5)	42 14.6 (7.4)
7	<i>EDIBLE VEGETABLES</i>	121 14.9 (0.9)	121 16.0 (3.9)	121 16.6 (5.4)	121 16.5 (4.6)	121 15.9 (3.2)
8	<i>EDIBLE FRUIT, NUTS</i>	137 6.9 (3.3)	137 10.3 (9.3)	137 11.2 (11.9)	143 10.6 (10.1)	143 10.3 (9.7)
9	<i>COFFEE, TEA, SPICES</i>	42 6.0 (3.8)	46 6.7 (6.0)	54 7.4 (5.9)	54 6.9 (4.3)	54 7.0 (4.8)
10	<i>CEREALS</i>	57 8.0 (2.5)	57 8.0 (2.5)	57 11.1 (9.4)	57 9.9 (5.9)	57 9.0 (4.1)

HS code 2 digits	Type of products	Year				
		2001	2002	2003	2004	2005
11	<i>MILLING PRODUCTS</i>	85 10.0 (0.0)	85 10.0 (0.0)	85 10.3 (1.6)	85 10.2 (1.9)	85 10.0 (2.7)
12	<i>OIL SEED</i>	84 5.0 (0.0)	84 5.0 (0.0)	84 4.9 (0.8)	84 4.9 (0.8)	84 4.9 (0.8)
13	<i>LAC, GUMS, RESINS</i>	18 5.0 (0.0)	18 5.0 (0.0)	18 5.0 (0.0)	18 5.0 (0.0)	18 5.0 (0.0)
14	<i>VEGETABLE PLAINTING</i>	8 13.8 (3.5)	8 13.8 (3.5)	8 13.8 (3.5)	8 13.8 (3.5)	8 13.8 (3.5)
15	<i>FATS, ANIMAL, VEGIE</i>	138 10.7 (4.9)	144 11.7 (6.6)	142 12.3 (7.7)	148 12.4 (8.6)	148 11.9 (6.7)
16	<i>MEAT, FISH, PREPS</i>	96 25.0 (17.5)	96 31.2 (49.5)	96 36.6 (46.8)	96 31.8 (28.8)	96 35.2 (50.2)
17	<i>SUGARS</i>	55 19.6 (15.9)	55 22.7 (20.9)	76 18.5 (30.1)	76 45.8 (58.3)	76 23.5 (41.5)
18	<i>COCOA AND COCOA PREP</i>	29 11.9 (12.2)	29 18.8 (20.1)	29 19.2 (16.5)	29 16.0 (14.5)	29 16.5 (14.4)
19	<i>CEREAL,FLOUR,STARCH</i>	51 15.3 (2.2)	51 16.3 (4.3)	51 18.6 (9.1)	51 18.1 (8.3)	51 18.2 (9.0)
20	<i>VEGIE, FRUIT, PREPS</i>	356 14.5 (2.9)	356 15.2 (4.1)	356 15.0 (3.9)	356 14.8 (4.1)	356 14.8 (4.2)
21	<i>MISC EDIBLE PREPS</i>	49 14.7 (4.2)	50 14.6 (4.0)	60 18.2 (20.4)	60 15.4 (5.6)	60 15.2 (5.0)
22	<i>BEVERAGES, VINEGAR</i>	176 25.1 (25.8)	175 19.8 (19.6)	176 19.6 (17.1)	176 19.7 (22.8)	176 21.5 (31.5)
23	<i>RESIDUES, WASTES</i>	67 7.7 (5.8)	67 7.7 (5.9)	68 7.6 (6.2)	68 7.8 (7.0)	68 7.9 (7.1)
	<i>TOBACCO</i>	30	30	31	31	31

HS code 2 digits	Type of products	Year				
		2001	2002	2003	2004	2005
24		10.8 (9.5)	10.8 (9.5)	10.5 (9.2)	10.5 (9.2)	10.5 (9.2)
25	SALT	93 5.2 (1.5)	93 5.2 (1.5)	93 5.2 (1.5)	93 5.2 (1.5)	93 5.2 (1.5)
26	ORES, SLAG AND ASH	53 5.0 (0.0)	53 5.0 (0.0)	53 5.0 (0.0)	53 5.0 (0.0)	53 5.0 (0.0)
27	MINERAL FUELS, OILS	111 5.0 (0.0)	111 5.0 (0.0)	111 5.0 (0.0)	111 5.0 (0.0)	111 5.0 (0.0)
28	INORGANIC CHEMICALS	267 5.3 (1.5)	267 5.3 (1.5)	267 5.3 (1.7)	267 5.3 (1.7)	267 5.3 (1.7)
29	ORGANIC CHEMICALS	570 5.1 (0.7)	570 5.2 (1.9)	570 5.3 (3.2)	570 5.2 (2.0)	570 5.1 (1.1)
30	PHARMACEUTICAL PROD	79 9.2 (3.3)	79 9.2 (3.3)	79 9.2 (3.3)	79 9.2 (3.3)	79 9.2 (3.3)
31	FERTILIZERS	37 10.0 (0.0)	37 10.0 (0.0)	37 10.0 (0.0)	37 10.0 (0.0)	37 10.0 (0.0)
32	TAN, DYE EXTRACTS	67 5.3 (1.7)	67 5.3 (1.7)	67 5.3 (1.7)	67 5.3 (1.7)	69 5.4 (2.2)
33	ESSENTIAL OILS	59 8.6 (4.8)	59 8.6 (4.8)	59 8.6 (4.8)	59 8.6 (4.8)	59 8.6 (4.8)
34	SOAPS, LUBRICANTS	36 12.8 (4.2)	36 12.8 (4.2)	36 13.1 (4.9)	38 12.5 (5.1)	38 12.6 (4.3)
35	MODIFIED STARCHES	35 5.0 (0.0)	35 5.3 (1.2)	35 5.5 (1.8)	35 5.6 (1.9)	35 5.6 (2.1)
36	Glues	10 20.0 (0.0)	10 20.0 (0.0)	10 20.0 (0.0)	10 20.0 (0.0)	10 20.0 (0.0)
	Pyrotechnic materials and products	61	61	61	61	61

HS code 2 digits	Type of products	Year				
		2001	2002	2003	2004	2005
37		11.8 (4.5)	11.8 (4.5)	11.8 (4.5)	11.8 (4.5)	11.8 (4.5)
38	MISC CHEMICAL PRODS	136 6.3 (3.3)	136 6.3 (3.3)	136 6.3 (3.3)	136 6.3 (3.3)	136 6.3 (3.3)
39	PLASTICS	279 11.3 (3.7)	281 11.5 (5.7)	277 11.6 (6.4)	281 11.3 (4.3)	287 11.2 (4.6)
40	RUBBER	113 9.0 (5.8)	113 10.7 (16.2)	113 10.2 (12.0)	113 9.7 (9.3)	117 9.5 (9.2)
41	RAW HIDES AND SKINS	79 5.0 (0.0)	79 5.0 (0.0)	79 5.0 (0.0)	79 5.0 (0.0)	79 5.0 (0.0)
42	ARTICLES OF LEATHER	39 36.4 (80.3)	39 34.6 (42.4)	39 36.4 (27.7)	39 32.6 (19.8)	39 28.0 (15.1)
43	FURSKINS	111 9.6 (4.2)	111 9.6 (4.2)	111 9.6 (4.2)	111 9.6 (4.2)	111 9.6 (4.2)
44	WOOD	173 15.0 (2.3)	173 15.0 (2.3)	170 14.9 (2.2)	170 14.9 (2.2)	170 14.9 (2.2)
45	CORK	13 5.0 (0.0)	13 5.0 (0.0)	13 5.0 (0.0)	13 5.0 (0.0)	13 5.0 (0.0)
46	PLAITING MATERIALS	12 20.0 (0.0)	12 20.0 (0.0)	12 20.0 (0.0)	12 20.0 (0.0)	12 20.0 (0.0)
47	PULP OF WOOD	23 15.0 (0.0)	23 15.0 (0.0)	23 15.0 (0.0)	23 15.0 (0.0)	25 14.6 (2.0)
48	PAPER & PAPERBOARD	212 13.8 (4.0)	214 13.8 (4.3)	213 14.1 (5.4)	213 13.7 (3.9)	213 13.6 (3.6)
49	PAPER & PAPERBOARD	27 6.1 (7.5)	27 6.1 (7.5)	27 6.1 (7.5)	27 6.1 (7.5)	27 6.1 (7.5)
	SILK	26	26	26	26	26

HS code 2 digits	Type of products	Year				
		2001	2002	2003	2004	2005
50		5.0 (0.0)	5.0 (0.0)	5.0 (0.0)	5.0 (0.0)	5.0 (0.0)
51	WOOL, ANIMAL HAIR	82 14.6 (1.4)	82 14.6 (1.4)	80 14.7 (1.2)	80 14.7 (1.2)	80 14.7 (1.2)
52	COTTON	162 11.2 (5.1)	162 11.2 (5.1)	162 11.2 (5.1)	162 11.2 (5.1)	162 11.2 (5.1)
53	VEGETABLE TEXTILE	43 7.4 (3.5)	43 7.4 (3.5)	43 7.4 (3.5)	43 7.4 (3.5)	43 7.4 (3.5)
54	MANMADE FILAMENTS	89 10.3 (1.8)	89 10.3 (1.8)	89 10.3 (1.8)	89 10.3 (1.8)	89 10.3 (1.8)
55	MANMADE STAPLE FIBRE	170 7.9 (2.5)	170 7.9 (2.5)	170 7.9 (2.5)	170 7.9 (2.5)	170 7.9 (2.5)
56	WADDING, FELT	68 14.9 (48.7)	68 8.8 (5.2)	68 8.8 (5.0)	68 9.0 (5.3)	68 8.9 (5.0)
57	CARPETS	39 21.2 (3.4)	39 23.8 (13.4)	39 23.0 (6.2)	39 21.2 (2.7)	39 20.1 (0.7)
58	SPECIAL WOVEN	56 20.0 (0.0)	56 20.0 (0.0)	56 20.0 (0.0)	56 20.0 (0.0)	56 20.0 (0.0)
59	TEXTILE FAB COATED	43 6.6 (3.7)	43 7.2 (5.7)	38 8.3 (9.7)	38 7.2 (4.6)	38 7.2 (4.4)
60	KNITTED OR CROCHETED	65 10.0 (0.0)	65 10.0 (0.0)	65 10.0 (0.0)	65 10.0 (0.0)	65 10.0 (0.0)
61	ARTICLES OF APPAREL KNIT	176 22.2 (8.7)	176 24.9 (16.1)	176 27.8 (15.2)	176 23.0 (11.9)	176 20.8 (5.0)
62	ARTICLES OF APPAREL	204 24.3 (18.0)	204 25.8 (23.8)	204 29.4 (28.7)	204 21.6 (6.2)	204 20.8 (5.0)
	OTHER TEXTILE ARTICLE	94	94	94	94	94

HS code 2 digits	Type of products	Year				
		2001	2002	2003	2004	2005
63		22.9 (16.5)	23.4 (14.1)	26.1 (31.6)	19.9 (7.5)	19.7 (5.9)
64	FOOTWEAR	82 24.2 (14.3)	82 32.2 (24.0)	82 22.2 (18.0)	82 31.6 (23.6)	82 26.5 (10.0)
65	HATS	22 20.0 (0.0)	22 20.4 (2.0)	22 20.7 (3.3)	22 20.0 (0.0)	22 20.0 (0.0)
66	UMBRELLAS	9 20.0 (0.0)	9 20.0 (0.0)	9 20.0 (0.0)	9 20.0 (0.0)	9 20.0 (0.0)
67	BIRD SKIN, FEATHERS	8 23.1 (6.8)	8 24.6 (9.4)	8 26.8 (13.2)	8 23.1 (6.0)	8 22.5 (5.2)
68	STONE, PLASTER	76 14.9 (1.3)	76 14.9 (1.3)	76 14.9 (1.3)	76 14.9 (1.3)	76 14.9 (1.3)
69	CERAMIC PRODUCTS	51 18.8 (5.2)	53 19.0 (9.7)	52 18.7 (4.2)	52 18.4 (4.0)	52 18.9 (4.1)
70	GLASS AND GLASSWARE	134 14.4 (1.8)	134 14.4 (1.9)	134 14.4 (1.9)	134 14.4 (1.9)	140 14.2 (2.5)
71	Natural or cultured pearls, precious or	63 19.7 (2.5)	63 19.7 (2.5)	63 19.7 (2.5)	63 19.7 (2.5)	63 19.7 (2.5)
72	STONE, PLASTER	432 5.0 (0.0)	432 5.0 (0.0)	432 5.0 (0.0)	432 5.0 (0.0)	432 5.0 (0.0)
73	Products from ferrous metals	296 14.2 (2.6)	298 14.1 (2.8)	297 14.2 (2.7)	297 14.2 (2.7)	305 14.0 (3.1)
74	Cuprum and products of cuprum	69 5.0 (0.0)	69 5.0 (0.0)	69 5.0 (0.0)	69 5.0 (0.0)	69 5.0 (0.0)
75	Nickel and products of nickel	18 11.1 (5.0)	18 11.1 (5.0)	18 11.1 (5.0)	18 11.1 (5.0)	18 11.1 (5.0)
	Aluminum and products of aluminum	65	65	65	65	65

HS code 2 digits	Type of products	Year				
		2001	2002	2003	2004	2005
76		15.1 (5.0)	15.0 (5.0)	15.3 (5.3)	15.4 (5.4)	15.1 (5.0)
78	<i>Lead and its products</i>	13 5.0 (0.0)	13 5.0 (0.0)	13 5.0 (0.0)	13 5.0 (0.0)	13 5.0 (0.0)
79	<i>Zinc and its products</i>	12 5.0 (0.0)	12 5.0 (0.0)	12 5.0 (0.0)	12 5.0 (0.0)	12 5.0 (0.0)
80	<i>Tin and its products</i>	8 5.0 (0.0)	8 5.5 (1.3)	8 12.9 (9.1)	8 5.5 (1.4)	8 5.0 (0.0)
81	<i>Non-ferrous metals, cermets and their products</i>	78 14.2 (2.7)	78 14.2 (2.7)	78 14.2 (2.7)	78 14.2 (2.7)	78 14.2 (2.7)
82	<i>TOOLS AND CUTLERY</i>	108 9.2 (6.0)	108 9.2 (6.0)	108 9.2 (6.0)	108 9.2 (6.0)	108 9.2 (6.0)
83	<i>Other metallic products</i>	50 19.8 (1.0)	50 19.8 (1.0)	50 19.4 (2.2)	50 19.4 (2.2)	58 18.3 (4.9)
84	<i>MACHINERY/APPLIANCES</i>	1,136 7.8 (4.1)	1,150 7.7 (4.2)	1,134 7.8 (4.2)	1,168 7.7 (4.5)	1,205 7.4 (4.5)
85	<i>Electrical equipment, audio- and video equipment</i>	745 11.7 (8.2)	745 11.7 (9.7)	735 11.7 (9.7)	739 11.7 (11.7)	787 11.1 (9.6)
86	<i>Railroad locomotives and cars</i>	41 7.2 (3.4)	47 6.6 (3.6)	44 7.0 (3.3)	44 7.0 (3.3)	44 7.0 (3.3)
87	<i>VEHICLES AND PARTS</i>	249 12.1 (7.1)	283 19.1 (44.8)	266 26.0 (90.7)	266 20.2 (42.6)	272 18.6 (38.7)
88	<i>Aircrafts</i>	36 15.4 (7.0)	36 15.4 (7.0)	36 15.4 (7.0)	36 15.4 (7.0)	36 15.4 (7.0)
89	<i>Boats, ships</i>	39 12.2 (7.1)	39 12.2 (7.1)	39 12.2 (7.1)	39 12.2 (7.1)	39 12.2 (7.1)
	<i>Optical equipment</i>	320	320	317	317	321

HS code 2 digits	Type of products	Year				
		2001	2002	2003	2004	2005
90		8.0 (4.5)	8.0 (4.5)	8.0 (4.5)	8.0 (4.5)	8.0 (4.5)
91	CLOCKS AND WATCHES	63 27.3 (26.0)	63 27.8 (27.9)	63 28.4 (21.1)	63 27.1 (26.9)	65 27.9 (27.2)
92	MUSICAL INSTRUMENTS	33 7.4 (4.4)	33 7.4 (4.4)	33 7.4 (4.4)	33 7.4 (4.4)	33 7.4 (4.4)
93	ARMS AND AMMUNITION	30 20.0 (0.0)	30 20.0 (0.0)	30 20.0 (0.0)	30 20.0 (0.0)	30 20.0 (0.0)
94	FURNITURE, LIGHTING	104 22.0 (9.8)	104 20.7 (14.0)	107 21.3 (13.4)	107 21.9 (14.1)	111 20.6 (12.7)
95	Toys and sport goods	81 15.5 (2.0)	81 15.5 (2.0)	81 15.5 (2.0)	81 15.5 (2.0)	81 15.5 (2.0)
96	MISCELLANEOUS MANUFA	72 19.1 (3.6)	72 19.1 (3.6)	72 19.5 (4.5)	72 19.1 (3.5)	74 18.9 (4.1)
97	WORKS OF ART, COLLEC	7 0.0 (0.0)	7 0.0 (0.0)	7 0.0 (0.0)	7 0.0 (0.0)	7 0.0 (0.0)

Notes: a Number of lines at 10-digit level
b Simple average over all lines in the subcategory
c Standard deviation over all lines in the subcategory

Table A2. List of product lines at 10 digit level with MFN tariff rates higher than 50% in 2005

Code 10 digits	Product Description	MFN Tariff Rate
1604309090	other ready-to-eat or canned roe other than sturgeon caviar and salmon roe, roe substitutes	469.7
2208903800	liquor made of plum, pear or cherry, in bottles with volume more than 2 liters	383.6
8703239022	other used motor vehicles with spark-ignition reciprocating internal combustion engines with capacity greater than 1800 cub. cm but not more than 2300 cub. cm manufactured more than 7 years ago	277.5
8703239011	other used motor vehicles with spark-ignition reciprocating internal combustion engines with capacity greater than 1500 cub. cm but not more than 1800 cub. cm manufactured more than 7 years ago	266.5
8703329091	used motor vehicles with piston compression-ignition internal combustion engines (diesel or semidiesel) with capacity greater than 1500 cub. cm but not more than 2500 cub. cm manufactured more than 7 years ago	251.3
8703339091	other used motor vehicles with piston compression-ignition internal combustion engines (diesel or semidiesel) with capacity greater than 2500 cub. cm manufactured more than 7 years ago	233.3
8703239027	other used motor vehicles with spark-ignition reciprocating internal combustion engines with capacity greater than 2300 cub. cm but not more than 3000 cub. cm manufactured more than 7 years ago	208.6
1701991001	white sugar without flavoring-aromatic or coloring agents	208.5
9101120000	electric watches, with or without a built-in stop-watch, with optoelectronic display only, with a case made from a precious metal or metal plated with a precious metal	198.5
8703319091	other motor vehicles with piston compression-ignition internal combustion engines (diesel or semidiesel) with capacity of not more than 1500 cub. cm manufactured more than 7 years ago	196.8
8703249091	other used motor vehicles with spark-ignition reciprocating internal combustion engines with capacity greater than 3000 cub. cm manufactured more than 7 years ago	181.4
8703229091	other used motor vehicles with spark-ignition reciprocating internal combustion engines with capacity greater than 1000 cub. cm but not more than 1500 cub. cm manufactured more than 7 years ago	163.3
8524530002	other pre-recorded magnetic tapes more than 6.5mm wide	198.0
1701991009	white sugar without flavoring-aromatic or coloring agents	196.2
8702101921	buses designed for carrying 120 or more persons, driver inclusive, with compression-ignition internal combustion engines (diesel or semidiesel) with capacity greater than 2500 cub. cm manufactured more than 7 years ago	138.4
2207200000	non-denaturated ethyl and other alcohols, of any concentration	100.0
9105110000	electric alarm clocks not intended for personal wear or portable use	102.4

Code 10 digits	Product Description	MFN Tariff Rate
2207100000	non-denaturated ethyl alcohol with alcohol concentration of 80 vol. % or higher	100.0
0203211009	other frozen homegrown pig carcasses and half-carcasses	104.0
0203121109	other unboned homegrown pig joints and cuts thereof, fresh or chilled	111.9
1701999009	other sugar without flavoring-aromatic or coloring agents, other than white raw sugar	122.3
1701999001	other sugar without flavoring-aromatic or coloring agents, other than white raw sugar	110.5
1701119008	cane sugar without flavoring-aromatic or coloring agents, not for purification	113.8
1701111008	cane sugar without flavoring-aromatic or coloring agents, for purification	112.3
1605201000	ready-to-eat or canned shrimps and prawns in sealed packages	103.4
1604309010	ready-to-eat or canned salmon roe (red caviar)	105.2
8523130002	magnetic tapes, more than 6.5 mm but less than 100 mm wide	98.1
1605209900	other shrimps and prawns, ready-to-eat or canned, in original packages with a net weight of more than 2 kg	99.4
1605100000	cooked canned crabs	97.1
0203219009	other frozen carcasses and half-carcasses of other pigs (other than homegrown)	91.0
0202100009	other frozen cattle carcasses and half-carcasses	90.5
1701111009	raw cane sugar without flavoring-aromatic or coloring agents, for refining: at an average monthly price of not less than US\$198.43 per ton at the New York Commodity Exchange	93.5
1605209100	other shrimps and prawns, ready-to-eat or canned, in original packages with a net weight of not more than 2 kg	93.3
2208208900	other liquors produced as a result of distillation of grape wine or pressing, in containers with a capacity of more than 2 l	85.1
2203001000	malt beer, in containers with a capacity of more than 10 l	88.0
0203295909	other frozen parts of homegrown pigs, other than boned	86.8
0203221109	other frozen unboned homegrown pig joints and cuts thereof	87.4
1701119009	raw cane sugar without flavoring-aromatic or coloring agents, not for refining: at an average monthly price of not less than US\$198.43 per ton at the New York Commodity Exchange	89.8
1604110000	ready-to-eat or canned salmon products, whole cooked or in pieces, other than stuffed	89.6
9103900000	other timepieces not intended for personal wear or portable use, with clockwork mechanisms for timepieces intended for portable use or personal wear, other than timepieces under commodity item 9104, other than electric	80.3
4203299900	gloves made of natural or artificial leather, other than for men	84.7

Code 10 digits	Product Description	MFN Tariff Rate
4012209000	other used pneumatic tires	83.3
2202901001	alcohol-free beer not containing the products under commodity items 0401-0404 or fats obtained from the products under commodity items 0401-0404	82.3
0203299009	other frozen pork (other than homegrown pig meat)	80.0
0203295509	other frozen boned parts of homegrown pigs	80.0
0203291509	other frozen streaked homegrown pig briskets and cuts thereof	81.6
0203291309	other unboned frozen homegrown pig loins and cuts thereof	80.0
0203291109	other frozen homegrown pig shoulder butts and cuts thereof	82.8
0203229009	other unboned frozen joints, shoulders and cuts of other pigs (other than homegrown ones)	80.0
0203221909	other frozen unboned homegrown pig shoulders and cuts thereof	80.0
0203199009	other fresh or chilled pork (other than homegrown pig meat)	80.0
0203195909	other homegrown pig meat, fresh or chilled	80.0
0203195509	other boned parts of homegrown pigs, fresh or chilled	80.0
0203191509	other streaked homegrown pig briskets and cuts thereof, fresh or chilled	80.0
0203191309	other unboned homegrown pig loins and cuts thereof, fresh or chilled	80.0
0203191109	other homegrown pig shoulder butts and cuts thereof, fresh or chilled	80.0
0203129009	other unboned joints, shoulders and cuts of other pigs (other than homegrown ones), fresh or chilled	80.0
0203121909	other unboned homegrown pig shoulders and cuts thereof, fresh or chilled	80.0
0203119009	other carcasses or half-carcasses of other pigs, other than homegrown, fresh or chilled	80.0
0203111009	other fresh and chilled homegrown pig carcasses and half-carcasses	80.0
0203000100	malt beer, bottled, with container capacity of 10 l or less	79.9
0209009000	unrendered, fresh, chilled, frozen, salted, pickled, dried, smoked poultry fat	77.8
0206210000	frozen cattle tongues	70.1
1602311100	ready-to-eat or canned turkey meat under commodity item 0105 with raw meat content of 57% wt. or higher	74.7
9404300000	sleeping bags	66.5
9105190000	other alarm clocks not intended for personal wear or portable use	68.6
8702101991	other motor vehicles designed for carrying 10 or more persons, driver inclusive, with compression-ignition internal combustion engines (diesel or semidiesel) with capacity greater than 2500 cub. cm manufactured more than 7 years ago	68.1

Code 10 digits	Product Description	MFN Tariff Rate
6203221000	men's or boys' working and professional sets made from cotton yarn, other than knitted	65.7
2203000900	other malt beer in containers with a capacity of 10 l or less, other than bottles	69.0
0202309009	other frozen boned cattle meat	65.2
1905311100	other men's or boys' sets made from man-made yarn, other than knitted, other than working and professional	68.9
1806905002	confectionery, toffees, candies and similar cocoa-containing sweets	67.0
1602319000	other cooked or canned food of turkey	66.8
9404100000	mattress frames	63.5
0808109004	other apple varieties	62.1
0808105004	Granny Smith fresh apples	61.6
0808102004	Golden Delicious fresh apples	61.1
0202305009	other frozen boned cattle shoulder, neck and shoulder part and brisket	64.1
0202305003	boneless meet of bovine animals, frozen	60.0
0202301009	other boned front quarters, whole or cut into not more than five pieces, with each quarter representing one block; with the "compensated" quarters representing two blocks one of which contains the front quarter, whole or cut into not more than five pieces, with the other containing the hind quarter, except for the tenderloin, in one piece	63.5
0202209009	other frozen unboned cattle cuts	60.0
0202205009	other frozen unboned, uncut or cut hind cattle quarters	61.4
0202203009	other frozen unboned, uncut or cut front cattle quarters	60.0
0202201009	other frozen unboned "compensated" cattle quarters	60.0
0201300009	other boned cattle meat, fresh or chilled	60.0
0201209009	other unboned cattle cuts, fresh or chilled	60.0
0201205009	other unboned, uncut or cut hind cattle quarters, fresh or chilled	60.0
0201203009	other unboned, uncut or cut front cattle quarters, fresh or chilled	60.0
0201203001	other cuts with bone in of meat of bovine animals, fresh or chilled	60.0
0201202009	other unboned "compensated" cattle quarters, fresh or chilled	60.0
0201100009	other cattle carcasses and half-carcasses, fresh or chilled	60.0
1602329000	other ready-to-eat or canned poultry products made from GALLUS DOMESTICUS, commodity item 0105	64.4

Code 10 digits	Product Description	MFN Tariff Rate
1602323000	ready-to-eat or canned poultry products made from GALLUS DOMESTICUS, commodity item 0105, containing 25% wt. or more, but less than 57% wt. of poultry meat or giblets	64.4
9404211000	mattresses made of porous rubber, with or without cover	57.7
9403500001	other furniture for bedroom made of wood that cost less than 1,8 Euro per 1 kg	56.2
9102990000	other watches intended for personal wear or portable use, stop-watches inclusive, other than watches and stop-watches under commodity item 9101	58.7
8539293000	other incandescent lamps for motorcycles or other motor vehicles	56.3
8470500000	cashpoints	57.7
6402995000	slippers and other home footwear with a plastic top and a sole	58.4
1704109900	other chewing gum (other than in sticks) with sucrose content of 60% wt. or higher (including invert sugar in terms of sucrose)	56.7
1602398000	other ready-to-eat or canned poultry products under commodity item 0105	56.5
9404291000	spring-loaded mattresses made of other materials	53.9
9403609001	other furniture made of wood that cost less then 1,8 Euro per 1Kg	52.5
9103100000	electric timepieces not intended for portable use or personal wear, with clockwork mechanisms for timepieces intended for portable use or personal wear, other than timepieces under commodity item 9104	54.9
6405209100	slippers and other home footwear with a top made from textile materials and a sole made from other materials	52.8
6404191000	slippers and other home footwear with a rubber or plastic sole and a textile top	51.0
6309000000	used clothes and other items	53.5
6116920000	other knitted gloves, mittens from cotton yarn, machine- or hand-knitted	51.3
4203210000	gloves or mittens from natural or composite leather intended specifically for sports use	51.2
3926909909	other stuff made of plastic and other materials that belong to the HS code group 3901-3914	51.8
0207269900	Poultry not cut in pieces, frozen	50.3
1602209000	other ready-to-eat or canned products from liver of all animals, other than duck and goose	50.6
1601001000	Prepared food made of liver	52.0

Table A3. List of product lines at 6 digit Harmonized System level with MFN tariff rates higher than 30% in 2003

6 digit HS code	Description of the product line	MFN tariff rate
160430	Caviar and caviar substitutes	280
160530	Lobster	171
160520	Shrimps and prawns	153
391890	Of other plastics	141
220300	Beer made from malt.	138
620329	Ensembles :-- Of other textile materials	117
910291	Other :-- Electrically operated	112
630900	Worn clothing and other worn articles.	109
621131	Other garments, men's or boys' :-- Of wool or fine animal hair	105
220710	Undenatured ethyl alcohol of an alcoholic strength by volume of 80 % vol or high	100
220720	Ethyl alcohol and other spirits, denatured, of any strength	100
30541	Smoked fish, including fillets :-- Pacific salmon (<i>Oncorhynchus nerka</i> , <i>Oncorhynchus</i>)	98
870323	Other vehicles, with spark-ignition internal combustion reciprocating piston eng	96
620792	Other :-- Of man-made fibres	94
940410	Mattress supports	94
910299	Other	86
910212	Wrist-watches, electrically operated, whether or not incorporating a stop-watch	85
870331	Other vehicles, with compression-ignition internal combustion piston engine (die	85
640590	Other	82
420321	Gloves, mittens and mitts :-- Specially designed for use in sports	82
910511	Alarm clocks :-- Electrically operated	80
590410	Linoleum	79
170199	Other	79
611692	Other :-- Of cotton	77
640520	With uppers of textile materials	75
610423	Ensembles :-- Of synthetic fibres	75
420329	Gloves, mittens and mitts :-- Other	74
940430	Sleeping bags	73
620322	Ensembles :-- Of cotton	73
910519	Alarm clocks :-- Other	72
870290	Other	70
621290	Other	70
910112	Wrist-watches, electrically operated, whether or not incorporating a stop-watch	70
853929	Other filament lamps, excluding ultra-violet or infra-red lamps :-- Other	67
620819	Slips and petticoats :-- Of other textile materials	66
870332	Other vehicles, with compression-ignition internal combustion piston engine (die	64
401220	Used pneumatic tyres	63
160411	Fish, whole or in pieces, but not minced :-- Salmon	62
870333	Other vehicles, with compression-ignition internal combustion piston engine (die	61
290721	Polyphenols :-- Resorcinol and its salts	61
870321	Other vehicles, with spark-ignition internal combustion reciprocating piston eng	61
910310	Electrically operated	58
160540	Other crustaceans	58
870324	Other vehicles, with spark-ignition internal combustion reciprocating piston eng	56

6 digit HS code	Description of the product line	MFN tariff rate
611610	Impregnated, coated or covered with plastics or rubber	56
670210	Of plastics	54
910191	Other :-- Electrically operated	54
910521	Wall clocks :-- Electrically operated	54
420212	Trunks, suit-cases, vanity-cases, executive-cases, brief-cases, school satchels	54
640219	Sports footwear :-- Other	54
910390	Other	53
620892	Other :-- Of man-made fibres	53
160220	Of liver of any animal	52
870322	Other vehicles, with spark-ignition internal combustion reciprocating piston eng	52
611511	Panty hose and tights :- Panty hose and tights :-- Of synthetic fibres, measurin	52
610469	Trousers, bib and brace overalls, breeches and shorts :-- Of other textile mater	51
160232	Of poultry of heading No. 01.05 :-- Of fowls of the species Gallus domesticus	51
420292	Other :-- With outer surface of plastic sheeting or of textile materials	51
170410	Chewing gum, whether or not sugar-coated	51
611520	Women's full-length or knee-length hosiery, measuring per single yarn less than	51
610230	Of man-made fibres	50
630229	Other bed linen, printed :-- Of other textile materials	50
20621	Of bovine animals, frozen :-- Tongues	50
291814	Carboxylic acids with alcohol function but without other oxygen function, their	50
640291	Other footwear :-- Covering the ankle	50
620510	Of wool or fine animal hair	50
160231	Of poultry of heading No. 01.05 :-- Of turkeys	49
20311	Fresh or chilled :-- Carcasses and half-carcasses	49
20312	Fresh or chilled :-- Hams, shoulders and cuts thereof, with bone in	49
852313	Magnetic tapes :-- Of a width exceeding 6.5 mm	48
620422	Ensembles :-- Of cotton	48
940380	Furniture of other materials, including cane, osier, bamboo or similar materials	48
610712	Underpants and briefs :-- Of man-made fibres	48
640299	Other footwear :-- Other	48
910591	Other :-- Electrically operated	46
620112	Overcoats, raincoats, car-coats, capes, cloaks and similar articles :-- Of cotto	46
610130	Of man-made fibres	46
430310	Articles of apparel and clothing accessories	46
610312	Suits :-- Of synthetic fibres	45
611720	Ties, bow ties and cravats	45
630299	Other :-- Of other textile materials	45
640199	Other footwear :-- Other	45
910529	Wall clocks :-- Other	45
20321	Frozen :-- Carcasses and half-carcasses	45
620423	Ensembles :-- Of synthetic fibres	45
847050	Cash registers	45
640419	Footwear with outer soles of rubber or plastics :-- Other	44
420219	Trunks, suit-cases, vanity-cases, executive-cases, brief-cases, school satchels	44
620711	Underpants and briefs :-- Of cotton	44
420239	Articles of a kind normally carried in the pocket or in the handbag :-- Other	44
570410	Tiles, having a maximum surface area of 0.3 m ²	44
160239	Of poultry of heading No. 01.05 :-- Other	44
620339	Jackets and blazers :-- Of other textile materials	44
180690	Other	43
961310	Pocket lighters, gas fuelled, non-refillable	43
20329	Frozen :-- Other	42
852311	Magnetic tapes :-- Of a width not exceeding 4 mm	42

6 digit HS code	Description of the product line	MFN tariff rate
20319	Fresh or chilled :-- Other	42
630240	Table linen, knitted or crocheted	42
20900	Pig fat, free of lean meat, and poultry fat, not rendered or otherwise extracted	42
180610	Cocoa powder, containing added sugar or other sweetening matter	42
20714	Of fowls of the species Gallus domesticus :-- Cuts and offal, frozen	41
160249	Of swine :-- Other, including mixtures	41
640510	With uppers of leather or composition leather	41
610719	Underpants and briefs :-- Of other textile materials	40
670290	Of other materials	40
620113	Overcoats, raincoats, car-coats, capes, cloaks and similar articles :-- Of man-m	40
481410	Ingrain paper	40
20322	Frozen :-- Hams, shoulders and cuts thereof, with bone in	39
20727	Of turkeys :-- Cuts and offal, frozen	39
60310	Fresh	39
620530	Of man-made fibres	39
80810	Apples	38
420310	Articles of apparel	38
611790	Parts	38
630140	Blankets (other than electric blankets) and travelling rugs, of synthetic fibres	38
401110	Of a kind used on motor cars (including station wagons and racing cars)	38
611212	Track suits :-- Of synthetic fibres	38
640220	Footwear with upper straps or thongs assembled to the sole by means of plugs	38
620192	Other :-- Of cotton	38
610590	Of other textile materials	38
610791	Other :-- Of cotton	38
20110	Carcasses and half-carcasses	38
640192	Other footwear :-- Covering the ankle but not covering the knee	37
640420	Footwear with outer soles of leather or composition leather	37
160100	Sausages and similar products, of meat, meat offal or blood; food preparations b	37
630190	Other blankets and travelling rugs	37
620791	Other :-- Of cotton	37
610329	Suits :-- Of other textile materials	37
481490	Other	37
170290	Other, including invert sugar	36
610333	Jackets and blazers :-- Of synthetic fibres	36
160510	Crab	36
640399	Other footwear :-- Other	36
620990	Of other textile materials	36
620442	Dresses :-- Of cotton	36
620413	Suits :-- Of synthetic fibres	35
570259	Other, not of pile construction, not made up :-- Of other textile materials	35
611519	Panty hose and tights :-- Of other textile materials	35
640330	Footwear made on a base or platform of wood, not having an inner sole or a prote	35
610711	Underpants and briefs :-- Of cotton	35
850710	Lead-acid, of a kind used for starting piston engines	35
420299	Other	35
610811	Slips and petticoats :-- Of man-made fibres	35
940190	Parts	34
220290	Other	34
620219	Overcoats, raincoats, car-coats, capes, cloaks and similar articles :-- Of other	34
610721	Nightshirts and pyjamas :-- Of cotton	34
940490	Other	34

6 digit HS code	Description of the product line	MFN tariff rate
640320	Footwear with outer soles of leather, and uppers which consist of leather straps	34
20733	Of ducks, geese or guinea fowls :-- Not cut in pieces, frozen	34
620343	Trousers, bib and brace overalls, breeches and shorts :-- Of synthetic fibres	33
570490	Other	33
610729	Nightshirts and pajamas :-- Of other textile materials	33
611592	Other :-- Of cotton	33
420222	Handbags, whether or not with shoulder strap, including those without handle :--	33
630239	Other bed linen :-- Of other textile materials	33
20130	Boneless	33
481420	Wallpaper and similar wall coverings, consisting of paper coated or covered, on	33
610322	Suits :-- Of cotton	33
630259	Other table linen :-- Of other textile materials	33
620193	Other :-- Of man-made fibres	33
160250	Of bovine animals	33
392610	Office or school supplies	32
910599	Other	32
20726	Of turkeys :-- Cuts and offal, fresh or chilled	32
620930	Of synthetic fibres	32
20230	Boneless	32
611710	Shawls, scarves, mufflers, mantillas, veils and the like	32
630311	Knitted or crocheted :-- Of cotton	32
620292	Other :-- Of cotton	32
620891	Other :-- Of cotton	31
620640	Of man-made fibres	31
620212	Overcoats, raincoats, car-coats, capes, cloaks and similar articles :-- Of cotton	31
640391	Other footwear :-- Covering the ankle	31
610120	Of cotton	31
610190	Of other textile materials	31
150710	Crude oil, whether or not degummed	31
20220	Other cuts with bone in	31
420330	Belts and bandoliers	31
650692	Other :-- Of furskin	31
620342	Trousers, bib and brace overalls, breeches and shorts :-- Of cotton	31
420232	Articles of a kind normally carried in the pocket or in the handbag :-- With out	30
611512	Panty hose and tights :- Panty hose and tights :-- Of synthetic fibres, measurin	30
620432	Jackets and blazers :-- Of cotton	30
610821	Briefs and panties :-- Of cotton	30
20120	Other cuts with bone in	30
630260	Toilet linen and kitchen linen, of terry towelling or similar terry fabrics, of	30
220860	Vodka	30
20210	Carcasses and half-carcasses	30
240210	Cigars, cheroots and cigarillos, containing tobacco	30
240220	Cigarettes containing tobacco	30
240290	Other	30

Appendix B: Estimated collected tariff rates

Table B1. Summary statistics of estimated collected import tariff rates in Russia in 2001-2005 ^(a)

Year	Tariff	Observations	Mean		Standard Deviation		Minimum rate	Maximum rate
			Simple	Trade weighted	Simple	Trade weighted		
2001	<i>Actual MFN tariff rate</i>	11,076	10.5	10.6	10.4	8.9	0	518
2002	<i>Actual MFN tariff rate</i>	11,148	11.0	12.7	12.7	14.6	0	388
2003	<i>Actual MFN tariff rate</i>	11,161	11.5	13.5	16.3	17.5	0	939
2004	<i>Actual MFN tariff rate</i>	11,218	11.2	13.4	12.8	16.5	0	293
2005	<i>Actual MFN tariff rate</i>	11,365	11.0	13.3	12.1	14.7	0	384

Notes: (a) Table 1 presents summary statistics at the ten digit level

Table B2. Distribution of estimated collected tariff rates in Russia in 2001-2005

	2001		2002		2003		2004		2005	
<i>Actual rate range, %</i>	<i>Frequency^a</i>	<i>Percent^b</i>	<i>Frequency</i>	<i>Percent</i>	<i>Frequency</i>	<i>Percent</i>	<i>Frequency</i>	<i>Percent</i>	<i>Frequency</i>	<i>Percent</i>
0 to < 5	2,285	20.63	2,357	21.14	2,305	20.65	2,400	21.39	2,378	20.92
5 to < 10	3,223	29.1	3,228	28.96	3,272	29.32	3,213	28.64	3,280	28.86
10 to < 15	2,228	20.12	2,214	19.86	2,185	19.58	2,253	20.08	2,261	19.89
15 to < 20	2,174	19.63	2,022	18.14	2,028	18.17	2,012	17.94	2,127	18.72
20 to < 25	850	7.67	889	7.97	824	7.38	854	7.61	871	7.66
25 to < 30	157	1.42	186	1.67	194	1.74	181	1.61	178	1.57
30 to < 35	47	0.42	79	0.71	66	0.59	84	0.75	75	0.66
35 to < 40	16	0.14	38	0.34	77	0.69	48	0.43	46	0.4
40 to < 45	30	0.27	35	0.31	49	0.44	33	0.29	27	0.24
45 to < 50	18	0.16	21	0.19	26	0.23	17	0.15	24	0.21
50 to < 55	7	0.06	9	0.08	19	0.17	17	0.15	13	0.11
55 to < 60	6	0.05	9	0.08	19	0.17	14	0.12	6	0.05
60 to < 65	2	0.02	6	0.05	17	0.15	21	0.19	18	0.16
65 to < 70	5	0.05	9	0.08	9	0.08	3	0.03	3	0.03
70 to < 75	2	0.02	2	0.02	10	0.09	4	0.04	2	0.02
75 to < 80	4	0.04	6	0.05	2	0.02	9	0.08	2	0.02
80 to < 85	4	0.04	7	0.06	14	0.13	16	0.14	18	0.16
85 to < 90	1	0.01	2	0.02	4	0.04	2	0.02	4	0.04
90 to < 95	2	0.02	1	0.01	3	0.03	1	0.01	3	0.03
95 to < 100	1	0.01	2	0.02	4	0.04	0	0	3	0.03
100 to < 150	11	0.1	11	0.1	18	0.16	16	0.14	14	0.12
150 to < 200	1	0.01	6	0.05	4	0.04	12	0.11	5	0.04
200 to < 250	0	0	1	0.01	3	0.03	3	0.03	2	0.02
250 to < 300	0	0	4	0.04	2	0.02	5	0.04	3	0.03
300 to < 350	0	0	3	0.03	5	0.04	0	0	1	0.01
350 to < 400	0	0	1	0.01	1	0.01	0	0	1	0.01
400 to < 450	1	0.01	0	0	0	0	0	0	0	0
450 to < 500	1	0.01	0	0	0	0	0	0	0	0
> 500	0	0	0	0	1	0.01	0	0	0	0
Total	11,076	100	11,148	100	11,160	100	11,218	100	11,365	100

Notes: a Number of lines at 10-digit level

b Percentage out of total number of product lines

Table B3. Average ad valorem equivalent of the specific collected tariff rates by industry tariff rates by industry a

<i>Industry</i>	<i>Year</i>									
	<i>2001</i>		<i>2002</i>		<i>2003</i>		<i>2004</i>		<i>2005</i>	
	<i>Un-weighted</i>	<i>Trade weighted</i>	<i>Un-weighted</i>	<i>Trade weighted</i>	<i>Un-weighted</i>	<i>Trade weighted</i>	<i>Un-weighted</i>	<i>Trade weighted</i>	<i>Un-weighted</i>	<i>Trade weighted</i>
<i>Non-ferrous metallurgy</i>			2.7 (8.6)	2.7 (0.0)	15.9 (5.9)	15.5 (6.0)	5.7 (6.7)	16.0 (4.2)	4.6	15.3 (7.3)
<i>Chemicals and petrochemicals</i>	20.4 (26.2)	15.0 (13.5)	34.6 (39.2)	24.6 (29.9)	37.2 (39.1)	25.0 (23.3)	32.4 (43.5)	20.2 (16.7)	29.6 (38.8)	21.4 (11.2)
<i>Mechanical engineering and metal-working</i>	23.5 (29.6)	21.7 (18.0)	43.0 (70.9)	27.5 (40.9)	52.0 (111.4)	24.6 (25.6)	42.3 (63.4)	26.4 (16.0)	38.6 (58.7)	27.9 (17.5)
<i>Timber, wood, pulp and paper</i>	20.1 (10.5)	19.5 (5.5)	24.7 (14.0)	25.0 (5.8)	29.2 (15.0)	29.1 (10.3)	29.3 (15.3)	28.0 (10.6)	26.4 (12.7)	26.9 (9.8)
<i>Construction materials</i>	16.4 (9.3)	16.3 (3.8)	20.3 (17.0)	18.8 (3.5)	19.1 (13.3)	22.8 (5.8)	16.1 (6.7)	21.7 (4.1)	17.0 (6.7)	22.5 (3.6)
<i>Light industry</i>	15.6 (31.3)	13.0 (12.4)	19.7 (22.4)	20.2 (15.4)	23.8 (25.5)	23.6 (13.5)	17.2 (13.9)	18.5 (8.9)	14.8 (8.7)	16.2 (6.9)
<i>Food industry</i>	17.9 (15.2)	19.3 (9.7)	17.6 (21.6)	26.5 (17.8)	21.2 (24.0)	37.7 (35.5)	22.2 (27.3)	33.2 (39.8)	22.1 (28.2)	31.9 (31.6)
<i>Other industries</i>	31.4 (9.8)	34.0 (6.4)	46.3 (16.0)	41.4 (10.4)	44.5 (8.6)	46.4 (7.3)	32.5 (20.7)	34.0 (7.5)	31.5 (19.0)	31.9 (7.5)
<i>Agriculture and forestry</i>	31.2 (28.1)	51.8 (14.6)	20.8 (12.9)	17.2 (12.4)	22.9 (14.2)	19.4 (13.8)	20.3 (12.1)	17.3 (11.0)	18.9 (13.2)	15.4 (10.6)
<i>Other goods-producing sectors</i>	24.4 (48.8)	109.2 (39.2)	23.5 (37.3)	78.8 (37.8)	23.5 (42.1)	65.0 (51.4)	20.7 (27.9)	50.6 (32.6)	15.5 (19.1)	29.8 (23.1)

Note:

a Ad valorem equivalent of the specific tariff is (*specific tariff rate*100*)/(unit value).

Summary statistics is calculated for non-zero specific tariffs only.

b Standard deviations in parentheses

Table B4. Average estimated collected tariff rates in Russia in 2001-2005 at industry level ^a

<i>Industry</i>	<i>Year</i>									
	<i>2001</i>		<i>2002</i>		<i>2003</i>		<i>2004</i>		<i>2005</i>	
	<i>mean</i>	<i>weighted mean</i>	<i>mean</i>	<i>weighted mean</i>	<i>mean</i>	<i>weighted mean</i>	<i>mean</i>	<i>weighted mean</i>	<i>mean</i>	<i>weighted mean</i>
<i>Electric industry</i>	2.0	2.0 (0.0)	3.2	3.2 (0.0)	2.6	2.6 (0.0)	2.6	2.6 (0.0)	2.0	2.0 (0.0)
<i>Oil extraction</i>	1.7 (2.9)	0.0 (0.0)	1.7 (2.9)	0.0 (0.0)	1.7 (2.9)	0.0 (0.0)	0.0 (0.0)	0.9 (0.0)	0.3 (0.5)	
<i>Oil processing</i>	4.9 (0.5)	4.5 (0.6)	4.6 (1.8)	4.7 (0.7)	4.6 (1.4)	4.7 (0.6)	4.9 (1.4)	4.8 (0.6)	4.7 (1.6)	4.8 (0.6)
<i>Gas</i>	5.0 (0.0)	5.0 (0.0)	5.0 (0.0)	4.5 (1.2)	5.0 (0.0)	4.2 (1.7)	4.3 (1.7)		3.9 (2.1)	
<i>Coalmining</i>	2.2 (2.5)	3.0 (2.4)	2.5 (2.6)	4.6 (0.8)	2.2 (2.5)	4.9 (0.5)	1.7 (2.2)	2.3 (2.1)	2.2 (2.4)	0.9 (1.4)
<i>Other fuel industries</i>	4.9 (0.2)	4.9 (0.1)	5.0 (0.0)	5.0 (0.0)	5.0 (0.0)	5.0 (0.0)	5.0 (0.0)	5.0 (0.0)	5.0 (0.0)	5.0 (0.0)
<i>Ferrous metallurgy</i>	5.4 (5.)	6.2 (4.5)	6.0 (5.2)	7.1 (4.9)	5.9 (5.1)	7.9 (5.9)	5.9 (5.2)	9.1 (6.5)	6.0 (5.)	8.5 (6.2)
<i>Non-ferrous metallurgy</i>	9.0 (6.9)	11.3 (7.1)	8.8 (6.8)	12.9 (7.4)	9.0 (7.)	13.7 (7.)	8.7 (6.9)	13.8 (6.9)	8.7 (6.8)	13.2 (7.)
<i>Chemicals and petrochemicals</i>	7.2 (5.1)	8.1 (4.9)	7.5 (7.1)	8.7 (8.2)	7.6 (7.5)	8.8 (7.1)	7.5 (7.6)	8.8 (5.9)	7.4 (7.)	8.7 (5.1)
<i>Mechanical engineering and metal-working</i>	9.4 (7.7)	9.2 (8.5)	10.1 (16.)	9.9 (15.7)	10.6 (23.6)	9.9 (11.)	10.1 (14.9)	11.9 (11.4)	9.8 (13.8)	12.2 (12.2)
<i>Timber, wood, pulp and paper</i>	14.1 (5.3)	12.7 (6.4)	14.2 (6.5)	13.6 (7.8)	14.5 (7.3)	13.0 (8.7)	14.5 (7.4)	13.1 (8.6)	14.3 (6.4)	12.9 (8.)
<i>Construction materials</i>	12.1 (5.8)	13.4 (5.2)	12.3 (7.)	13.7 (5.2)	12.3 (6.4)	14.6 (6.)	12.1 (5.6)	14.4 (5.2)	12.2 (5.6)	14.5 (5.2)
<i>Light industry</i>	15.2 (19.4)	17.0 (9.7)	16.3 (15.5)	20.6 (13.3)	17.0 (17.3)	19.1 (11.8)	15.5 (10.9)	18.6 (9.6)	14.8 (8.)	18.8 (8.3)
<i>Food industry</i>	13.0 (9.5)	14.8 (9.4)	13.1 (12.4)	19.5 (16.1)	14.2 (14.7)	24.8 (29.6)	14.8 (16.7)	22.0 (30.9)	14.7 (16.8)	21.8 (25.6)
<i>Other industries</i>	11.2 (7.6)	8.9 (7.8)	11.5 (8.7)	9.4 (8.1)	11.6 (8.5)	9.4 (8.3)	11.7 (8.6)	9.4 (7.8)	11.6 (8.4)	8.8 (7.5)
<i>Agriculture and forestry</i>	6.8 (5.5)	7.3 (5.6)	8.3 (7.6)	12.3 (10.3)	8.2 (8.3)	13.3 (11.3)	8.0 (7.4)	11.9 (9.7)	7.9 (7.3)	11.3 (8.9)
<i>Other goods-producing sectors</i>	17.3 (16.5)	10.0 (33.3)	17.6 (13.2)	6.6 (24.)	17.8 (14.4)	7.1 (25.3)	16.3 (11.2)	6.4 (19.6)	15.7 (8.8)	9.3 (13.8)

Notes: a Mapping from 10 digit codes to sectors is based on Goskomstat classification

b Standard deviation in parentheses

Table B5. Number of lines with estimated collected rates above 20 and 30% and maximum estimated collected rates by year and industry

<i>Industry</i>	<i>Year</i>									
	<i>2001</i>		<i>2002</i>		<i>2003</i>		<i>2004</i>		<i>2005</i>	
	>20	>30	>20	>30	>20	>30	>20	>30	>20	>30
<i>Chemicals and petrochemicals</i>	6	2 125	14	9 154	18	12 186	15	10 181	13	5 198
<i>Mechanical engineering and metal-working</i>	49	17 198	57	38 338	59	43 939	59	46 293	60	43 278
<i>Timber, wood, pulp and paper</i>	17	5 51	24	7 83	27	15 73	29	17 74	28	14 54
<i>Construction materials</i>	2	1 48	6	2 81	7	2 60	4	0 29	5	0 29
<i>Light industry</i>	130	51 518	232	97 284	251	129 319	210	71 164	165	50 84
<i>Food industry</i>	230	76 127	238	83 388	313	130 323	317	140 256	297	144 384
<i>Other industries</i>	2	1 38	3	3 63	3	3 54	4	3 57	4	3 53
<i>Agriculture and forestry</i>	2	2 58	20	9 56	24	15 70	21	14 57	17	8 62
<i>Other goods-producing sectors</i>	1	1 124	1	1 99	1	1 109	1	1 76	1	1 53

Notes: a Number of lines

b The highest rate in % in the subcategory

Table B6. Estimated collected tariff rates at 2 digit Harmonized System (HS) level

HS code 2 digits	Type of products	Year				
		2001	2002	2003	2004	2005
1	<i>LIVE ANIMALS</i>	70 3.9 (2.1)	70 3.9 (2.1)	70 3.6 (2.2)	70 3.3 (2.3)	70 3.5 (2.3)
2	<i>MEAT, EDIBLE OFFAL</i>	256 19.6 (7.6)	256 20.2 (7.9)	292 26.1 (18.7)	292 27.0 (18.2)	300 28.2 (20.1)
3	<i>FISH, CRUSTACEANS</i>	338 10.1 (4.2)	338 10.8 (20.6)	338 10.0 (5.1)	339 9.9 (3.3)	339 9.8 (2.2)
4	<i>DAIRY PRODUCTS</i>	176 14.6 (5.7)	176 14.6 (4.1)	176 14.3 (5.3)	176 14.6 (5.3)	176 13.9 (5.5)
5	<i>ANIMAL PRODUCTS NES</i>	33 7.6 (3.1)	33 8.2 (2.4)	33 7.8 (2.8)	33 7.8 (2.8)	33 7.4 (3.1)
6	<i>LIVE TREES, PLANTS</i>	42 13.6 (9.0)	42 15.3 (8.6)	42 15.7 (10.2)	42 14.9 (8.5)	42 14.3 (7.5)
7	<i>EDIBLE VEGETABLES</i>	121 13.0 (4.1)	121 13.7 (4.5)	121 13.2 (5.1)	121 12.9 (5.0)	121 13.2 (4.0)
8	<i>EDIBLE FRUIT, NUTS</i>	137 5.4 (3.7)	137 8.7 (9.1)	137 9.0 (10.2)	143 8.7 (8.7)	143 8.6 (9.2)
9	<i>COFFEE, TEA, SPICES</i>	42 5.8 (3.7)	46 6.6 (6.0)	54 7.2 (6.0)	54 6.6 (4.5)	54 6.7 (4.8)
10	<i>CEREALS</i>	57 6.9 (3.8)	57 7.1 (3.6)	57 9.0 (9.5)	57 7.4 (6.7)	57 6.8 (5.2)
11	<i>MILLING PRODUCTS</i>	85 9.3 (2.0)	85 9.0 (2.6)	85 9.5 (2.9)	85 9.0 (3.5)	85 9.3 (3.4)
12	<i>OIL SEED</i>	84 4.4 (1.4)	84 4.5 (1.2)	84 4.4 (1.4)	84 4.3 (1.6)	84 4.5 (1.3)

HS code 2 digits	Type of products	Year				
		2001	2002	2003	2004	2005
13	<i>LAC, GUMS, RESINS</i>	18 4.5 (1.3)	18 4.6 (1.2)	18 4.8 (0.5)	18 4.9 (0.2)	18 5.0 (0.1)
14	<i>VEGETABLE PLAINTING</i>	8 10.3 (6.5)	8 9.9 (6.4)	8 8.8 (6.3)	8 8.8 (6.4)	8 9.9 (6.4)
15	<i>FATS, ANIMAL, VEGIE</i>	138 9.9 (5.4)	144 10.2 (6.7)	142 10.5 (7.8)	148 10.6 (8.4)	148 9.9 (6.9)
16	<i>MEAT, FISH, PREPS</i>	96 22.5 (16.4)	96 24.8 (21.8)	96 29.7 (41.1)	96 27.2 (25.7)	96 31.2 (37.8)
17	<i>SUGARS</i>	55 16.9 (15.9)	55 20.5 (20.8)	76 14.1 (22.0)	76 40.3 (53.2)	76 19.2 (31.9)
18	<i>COCOA AND COCOA PREP</i>	29 8.0 (8.4)	29 10.6 (9.8)	29 12.3 (11.8)	29 10.4 (9.8)	29 10.8 (9.6)
19	<i>CEREAL,FLOUR,STARCH</i>	51 14.5 (3.1)	51 14.1 (4.2)	51 15.8 (8.0)	51 15.2 (8.1)	51 15.4 (7.4)
20	<i>VEGIE, FRUIT, PREPS</i>	356 12.0 (4.9)	356 12.3 (5.1)	356 12.6 (5.4)	356 12.3 (5.3)	356 13.0 (5.0)
21	<i>MISC EDIBLE PREPS</i>	49 14.0 (4.8)	50 13.6 (5.1)	60 16.5 (16.2)	60 14.1 (6.7)	60 14.0 (5.9)
22	<i>BEVERAGES, VINEGAR</i>	176 19.7 (19.0)	175 16.2 (14.3)	176 16.3 (15.2)	176 16.0 (21.7)	176 18.4 (30.8)
23	<i>RESIDUES, WASTES</i>	67 7.4 (6.1)	67 7.2 (6.3)	68 7.2 (6.4)	68 7.4 (7.3)	68 7.6 (7.3)
24	<i>TOBACCO</i>	30 9.7 (9.4)	30 9.6 (9.6)	31 9.2 (9.4)	31 9.5 (9.1)	31 8.2 (8.6)
25	<i>SALT</i>	93 3.9 (2.4)	93 4.0 (2.3)	93 3.9 (2.3)	93 3.9 (2.3)	93 4.0 (2.3)

HS code 2 digits	Type of products	Year				
		2001	2002	2003	2004	2005
26	ORES, SLAG AND ASH	53 3.7 (2.1)	53 3.6 (2.1)	53 3.2 (2.3)	53 3.4 (2.2)	53 3.3 (2.3)
27	MINERAL FUELS, OILS	111 4.2 (1.7)	111 4.0 (1.8)	111 4.0 (1.8)	111 3.9 (1.9)	111 3.8 (2.0)
28	INORGANIC CHEMICALS	267 4.3 (2.0)	267 4.4 (2.1)	267 4.5 (2.3)	267 4.4 (2.2)	267 4.4 (2.1)
29	ORGANIC CHEMICALS	570 4.9 (1.1)	570 4.9 (2.1)	570 5.0 (3.0)	570 5.0 (2.1)	570 5.0 (1.3)
30	PHARMACEUTICAL PROD	79 8.8 (3.3)	79 8.8 (3.5)	79 8.8 (3.5)	79 8.9 (3.5)	79 8.8 (3.4)
31	FERTILIZERS	37 8.4 (3.3)	37 9.4 (1.9)	37 8.8 (3.1)	37 9.1 (2.8)	37 8.9 (3.0)
32	TAN, DYE EXTRACTS	67 5.0 (1.8)	67 5.1 (1.8)	67 5.1 (1.8)	67 5.1 (1.8)	69 5.2 (2.2)
33	ESSENTIAL OILS	59 8.4 (4.6)	59 8.5 (4.8)	59 8.5 (4.8)	59 8.5 (4.8)	59 8.5 (4.8)
34	SOAPS, LUBRICANTS	36 11.9 (4.5)	36 12.1 (4.3)	36 12.6 (4.8)	38 11.9 (5.0)	38 12.3 (4.3)
35	MODIFIED STARCHES	35 4.9 (0.2)	35 5.2 (1.1)	35 5.4 (1.9)	35 5.4 (2.0)	35 5.3 (2.3)
36	Glues	10 17.3 (5.4)	10 19.4 (1.9)	10 18.0 (3.8)	10 18.7 (2.4)	10 19.1 (2.3)
37	Pyrotechnic materials and products	61 11.2 (4.7)	61 11.5 (4.7)	61 11.7 (4.5)	61 11.8 (4.5)	61 11.8 (4.4)
38	MISC CHEMICAL PRODS	136 5.7 (3.4)	136 5.9 (3.4)	136 5.9 (3.5)	136 5.9 (3.4)	136 6.1 (3.4)

HS code 2 digits	Type of products	Year				
		2001	2002	2003	2004	2005
39	<i>PLASTICS</i>	279 10.8 (3.8)	281 11.1 (5.8)	277 11.2 (6.3)	281 10.9 (4.4)	287 10.7 (4.7)
40	<i>RUBBER</i>	113 8.3 (5.5)	113 10.0 (16.2)	113 9.5 (12.1)	113 9.0 (9.4)	117 8.9 (9.3)
41	<i>RAW HIDES AND SKINS</i>	79 5.0 (0.1)	79 4.7 (1.0)	79 4.8 (0.6)	79 4.9 (0.5)	79 4.8 (0.6)
42	<i>ARTICLES OF LEATHER</i>	39 36.2 (80.2)	39 34.5 (42.4)	39 36.4 (27.8)	39 32.4 (19.9)	39 27.9 (15.1)
43	<i>FURSKINS</i>	111 9.5 (4.1)	111 9.3 (3.8)	111 9.4 (4.2)	111 9.4 (4.2)	111 9.4 (4.3)
44	<i>WOOD</i>	173 14.6 (2.9)	173 14.4 (3.1)	170 14.3 (3.0)	170 14.4 (2.9)	170 14.4 (2.8)
45	<i>CORK</i>	13 5.0 (0.0)	13 5.0 (0.1)	13 5.0 (0.0)	13 5.0 (0.0)	13 5.0 (0.0)
46	<i>PLAITING MATERIALS</i>	12 19.3 (1.9)	12 19.6 (1.0)	12 19.6 (1.0)	12 19.7 (0.5)	12 19.8 (0.3)
47	<i>PULP OF WOOD</i>	23 13.6 (3.6)	23 13.7 (3.6)	23 13.4 (4.3)	23 13.2 (4.8)	25 14.0 (3.5)
48	<i>PAPER & PAPERBOARD</i>	212 12.8 (4.2)	214 12.5 (4.5)	213 12.5 (4.3)	213 12.4 (4.4)	213 12.6 (4.3)
49	<i>PAPER & PAPERBOARD</i>	27 5.6 (7.3)	27 5.2 (7.0)	27 5.1 (7.0)	27 5.1 (7.0)	27 5.0 (6.9)
50	<i>SILK</i>	26 4.6 (1.2)	26 4.6 (1.2)	26 5.0 (0.0)	26 5.0 (0.0)	26 5.0 (0.0)
51	<i>WOOL, ANIMAL HAIR</i>	82 12.9 (4.0)	82 12.4 (5.1)	80 13.2 (4.4)	80 13.4 (4.3)	80 13.4 (4.1)

HS code 2 digits	Type of products	Year				
		2001	2002	2003	2004	2005
52	<i>COTTON</i>	162 9.0 (6.1)	162 9.9 (6.0)	162 9.9 (5.8)	162 10.1 (5.8)	162 10.2 (5.7)
53	<i>VEGETABLE TEXTILE</i>	43 7.0 (3.7)	43 7.3 (3.5)	43 7.3 (3.6)	43 7.3 (3.6)	43 7.1 (3.6)
54	<i>MANMADE FILAMENTS</i>	89 9.8 (2.4)	89 9.8 (2.6)	89 9.8 (2.5)	89 9.5 (2.9)	89 9.5 (2.9)
55	<i>MANMADE STAPLE FIBRE</i>	170 7.7 (2.6)	170 7.8 (2.5)	170 7.8 (2.7)	170 7.8 (2.6)	170 7.8 (2.6)
56	<i>WADDING, FELT</i>	68 13.8 (48.9)	68 8.1 (5.3)	68 8.0 (5.0)	68 8.0 (5.4)	68 8.1 (5.1)
57	<i>CARPETS</i>	39 18.9 (6.8)	39 21.7 (14.6)	39 21.6 (7.2)	39 18.8 (4.4)	39 19.1 (2.9)
58	<i>SPECIAL WOVEN</i>	56 19.6 (1.4)	56 19.7 (1.2)	56 19.6 (2.1)	56 19.8 (1.0)	56 19.6 (2.5)
59	<i>TEXTILE FAB COATED</i>	43 6.3 (4.0)	43 7.0 (5.9)	38 8.0 (9.8)	38 6.8 (4.7)	38 6.7 (4.1)
60	<i>KNITTED OR CROCHETED</i>	65 9.9 (0.5)	65 9.7 (1.2)	65 9.8 (0.8)	65 9.9 (0.4)	65 9.8 (1.1)
61	<i>ARTICLES OF APPAREL KNIT</i>	176 20.8 (7.8)	176 24.1 (14.7)	176 26.9 (15.0)	176 22.4 (11.7)	176 20.2 (4.7)
62	<i>ARTICLES OF APPAREL</i>	204 22.1 (15.6)	204 23.9 (20.9)	204 28.0 (27.6)	204 20.4 (6.4)	204 19.9 (4.8)
63	<i>OTHER TEXTILE ARTICL</i>	94 20.3 (17.3)	94 22.0 (14.6)	94 24.9 (31.9)	94 18.9 (8.0)	94 18.6 (6.8)
64	<i>FOOTWEAR</i>	82 20.1 (9.2)	82 30.4 (20.1)	82 20.2 (13.6)	82 29.8 (21.4)	82 25.0 (9.3)

HS code 2 digits	Type of products	Year				
		2001	2002	2003	2004	2005
65	<i>HATS</i>	22 19.2 (3.3)	22 15.9 (7.2)	22 18.1 (4.6)	22 18.3 (3.3)	22 18.4 (3.5)
66	<i>UMBRELLAS</i>	9 19.2 (1.7)	9 19.6 (1.3)	9 19.7 (0.9)	9 19.0 (2.0)	9 19.1 (1.9)
67	<i>BIRD SKIN, FEATHERS</i>	8 20.4 (10.4)	8 23.1 (10.9)	8 24.4 (16.0)	8 22.8 (6.2)	8 22.5 (5.2)
68	<i>STONE, PLASTER</i>	76 12.6 (4.0)	76 12.3 (3.9)	76 12.5 (4.0)	76 13.0 (3.6)	76 12.9 (3.9)
69	<i>CERAMIC PRODUCTS</i>	51 16.7 (6.0)	53 17.7 (10.0)	52 16.8 (5.3)	52 16.4 (5.5)	52 17.2 (5.2)
70	<i>GLASS AND GLASSWARE</i>	134 13.2 (3.2)	134 13.2 (3.2)	134 13.1 (3.3)	134 13.1 (3.2)	140 13.1 (3.4)
71	<i>Natural or cultured pearls, precious or</i>	63 19.7 (2.5)	63 19.7 (2.5)	63 19.7 (2.5)	63 18.4 (5.0)	63 17.5 (5.8)
72	<i>STONE, PLASTER</i>	432 3.0 (2.2)	432 3.3 (2.1)	432 3.4 (2.1)	432 3.4 (2.1)	432 3.5 (2.1)
73	<i>Products from ferrous metals</i>	296 10.7 (5.2)	298 11.6 (4.8)	297 11.6 (4.8)	297 11.5 (4.9)	305 11.3 (4.9)
74	<i>Cuprum and products of cuprum</i>	69 3.2 (1.9)	69 3.6 (1.7)	69 3.7 (1.7)	69 3.5 (1.8)	69 3.6 (1.8)
75	<i>Nickel and products of nickel</i>	18 9.0 (5.1)	18 10.1 (5.0)	18 10.2 (5.5)	18 10.0 (5.3)	18 9.3 (5.1)
76	<i>Aluminum and products of aluminum</i>	65 13.5 (6.7)	65 13.4 (6.4)	65 13.6 (7.0)	65 13.4 (7.0)	65 13.5 (6.4)
78	<i>Lead and its products</i>	13 2.6 (2.4)	13 3.2 (2.4)	13 3.3 (2.2)	13 3.8 (2.1)	13 4.2 (1.8)

HS code 2 digits	Type of products	Year				
		2001	2002	2003	2004	2005
79	<i>Zinc and its products</i>	12 4.0 (1.4)	12 3.9 (2.0)	12 3.8 (2.2)	12 3.0 (2.4)	12 3.3 (2.3)
80	<i>Tin and its products</i>	8 5.0 (0.0)	8 4.7 (0.8)	8 12.9 (9.1)	8 5.5 (1.4)	8 5.0 (0.0)
81	<i>Non-ferrous metals, cermets and their products</i>	78 12.3 (5.0)	78 10.7 (5.9)	78 10.9 (5.7)	78 11.0 (6.0)	78 11.1 (6.0)
82	<i>TOOLS AND CUTLERY</i>	108 8.5 (6.2)	108 8.8 (6.2)	108 8.7 (6.1)	108 8.8 (6.1)	108 8.7 (6.1)
83	<i>Other metallic products</i>	50 18.3 (3.4)	50 18.7 (3.0)	50 18.2 (3.9)	50 17.8 (4.4)	58 16.9 (5.5)
84	<i>MACHINERY/APPLIANCES</i>	1136 6.7 (4.2)	1150 6.8 (4.2)	1134 6.9 (4.2)	1168 6.8 (4.5)	1205 6.7 (4.4)
85	<i>Electrical equipment, audio- and video equipment</i>	745 10.4 (7.9)	745 10.7 (9.4)	735 10.7 (9.8)	739 10.8 (11.7)	787 10.3 (9.5)
86	<i>Railroad locomotives and cars</i>	41 3.7 (4.2)	47 3.2 (4.2)	44 3.2 (4.2)	44 3.1 (4.1)	44 2.9 (4.1)
87	<i>VEHICLES AND PARTS</i>	249 10.8 (7.4)	283 18.1 (44.9)	266 24.0 (74.4)	266 19.4 (41.9)	272 18.0 (38.8)
88	<i>Aircrafts</i>	36 14.0 (7.8)	36 15.0 (7.1)	36 14.5 (7.4)	36 12.5 (8.4)	36 13.4 (8.0)
89	<i>Boats, ships</i>	39 10.9 (6.9)	39 10.5 (7.1)	39 10.7 (7.0)	39 10.2 (6.8)	39 9.6 (7.3)
90	<i>Optical equipment</i>	320 7.5 (4.5)	320 7.6 (4.5)	317 7.7 (4.5)	317 7.8 (4.5)	321 7.7 (4.5)
91	<i>CLOCKS AND WATCHES</i>	63 27.3 (26.0)	63 27.7 (27.9)	63 28.3 (21.1)	63 27.1 (26.9)	65 27.7 (27.2)

HS code 2 digits	Type of products	Year				
		2001	2002	2003	2004	2005
92	MUSICAL INSTRUMENTS	33 7.4 (4.4)	33 7.2 (4.1)	33 7.4 (4.4)	33 7.3 (4.4)	33 7.3 (4.4)
93	ARMS AND AMMUNITION	30 19.0 (4.0)	30 18.9 (3.6)	30 18.4 (5.1)	30 16.9 (6.1)	30 15.9 (7.7)
94	FURNITURE, LIGHTING	104 20.5 (8.9)	104 19.8 (13.4)	107 20.2 (12.8)	107 20.9 (13.2)	111 19.3 (11.3)
95	Toys and sport goods	81 15.1 (2.5)	81 15.2 (2.4)	81 15.2 (2.4)	81 15.1 (2.6)	81 15.1 (2.3)
96	MISCELLANEOUS MANUFA	72 18.1 (5.2)	72 18.4 (4.5)	72 19.0 (5.1)	72 18.7 (4.1)	74 18.5 (4.6)
97	WORKS OF ART, COLLEC	7 0.0 (0.0)	7 0.0 (0.0)	7 0.0 (0.0)	7 0.0 (0.0)	7 0.0 (0.0)

Notes:

- a Number of lines at 10-digit level
- b Simple average over all lines in the subcategory
- c Standard deviation over all lines in the subcategory

Table B7. List of product lines at 10 digit Harmonized System level with estimated collected tariff rates higher than 50%

Code 10 digits	Product Description	Tariff Rate
2208903800	liquor made of plum, pear or cherry, in bottles with volume more than 2 liters	383.6
1604309090	other ready-to-eat or canned roe other than sturgeon caviar and salmon roe, roe substitutes	322.4
8703239022	other used motor vehicles with spark-ignition reciprocating internal combustion engines with capacity greater than 1800 cub. cm but not more than 2300 cub. cm manufactured more than 7 years ago	277.5
8703239011	other used motor vehicles with spark-ignition reciprocating internal combustion engines with capacity greater than 1500 cub. cm but not more than 1800 cub. cm manufactured more than 7 years ago	266.5
8703329091	used motor vehicles with piston compression-ignition internal combustion engines (diesel or semidiesel) with capacity greater than 1500 cub. cm but not more than 2500 cub. cm manufactured more than 7 years ago	251.3
8703339091	other used motor vehicles with piston compression-ignition internal combustion engines (diesel or semidiesel) with capacity greater than 2500 cub. cm manufactured more than 7 years ago	233.3
8703239027	other used motor vehicles with spark-ignition reciprocating internal combustion engines with capacity greater than 2300 cub. cm but not more than 3000 cub. cm manufactured more than 7 years ago	208.6
9101120000	electric watches, with or without a built-in stop-watch, with optoelectronic display only, with a case made from a precious metal or metal plated with a precious metal	198.5
8524530002	other pre-recorded magnetic tapes more than 6.5mm wide	198.0
8703319091	other motor vehicles with piston compression-ignition internal combustion engines (diesel or semidiesel) with capacity of not more than 1500 cub. cm manufactured more than 7 years ago	196.8
8703249091	other used motor vehicles with spark-ignition reciprocating internal combustion engines with capacity greater than 3000 cub. cm manufactured more than 7 years ago	181.4
8703229091	other used motor vehicles with spark-ignition reciprocating internal combustion engines with capacity greater than 1000 cub. cm but not more than 1500 cub. cm manufactured more than 7 years ago	163.3
8702101921	buses designed for carrying 120 or more persons, driver inclusive, with compression-ignition internal combustion engines (diesel or semidiesel) with capacity greater than 2500 cub. cm manufactured more than 7 years ago	138.4
8703219091	other motor vehicles designed for carrying 10 or more persons, driver inclusive, with compression-ignition internal combustion engines (diesel or semidiesel) with capacity greater than 2500 cub. cm manufactured more than 7 years ago	133.9
1701999009	other sugar without flavoring-aromatic or coloring agents, other than white raw sugar	122.3
1701991009	white sugar without flavoring-aromatic or coloring agents	121.8
1701119008	cane sugar without flavoring-aromatic or coloring agents, not for purification	113.8
1701111008	cane sugar without flavoring-aromatic or coloring agents, for purification	112.3
0203121109	other unboned homegrown pig joints and cuts thereof, fresh or chilled	111.9
1701999001	other sugar without flavoring-aromatic or coloring agents, other than white raw sugar	110.5
1604309010	ready-to-eat or canned salmon roe (red caviar)	105.2

Code 10 digits	Product Description	Tariff Rate
1605201000	ready-to-eat or canned shrimps and prawns in sealed packages	103.4
0203211009	other frozen homegrown pig carcasses and half-carcasses	103.2
9105110000	electric alarm clocks not intended for personal wear or portable use	102.4
2207100000	non-denaturated ethyl alcohol with alcohol concentration of 80 vol. % or higher	100.0
2207200000	non-denaturated ethyl and other alcohols, of any concentration	100.0
1605209900	other shrimps and prawns, ready-to-eat or canned, in original packages with a net weight of more than 2 kg	99.4
8523130002	magnetic tapes, more than 6.5 mm but less than 100 mm wide	98.1
1605100000	cooked canned crabs	97.1
1701111009	raw cane sugar without flavoring-aromatic or coloring agents, for refining: at an average monthly price of not less than US\$198.43 per ton at the New York Commodity Exchange	93.5
1605209100	other shrimps and prawns, ready-to-eat or canned, in original packages with a net weight of not more than 2 kg	93.3
0203219009	other frozen carcasses and half-carcasses of other pigs (other than homegrown)	91.0
1701119009	raw cane sugar without flavoring-aromatic or coloring agents, not for refining: at an average monthly price of not less than US\$198.43 per ton at the New York Commodity Exchange	89.8
1604110000	ready-to-eat or canned salmon products, whole cooked or in pieces, other than stuffed	89.6
0203221109	other frozen unboned homegrown pig joints and cuts thereof	87.3
2203001000	malt beer, in containers with a capacity of more than 10 l	85.2
4203299900	gloves made of natural or artificial leather, other than for men	84.3
4012209000	other used pneumatic tires	83.3
0203291109	other frozen homegrown pig shoulder butts and cuts thereof	82.8
0203291509	other frozen streaked homegrown pig briskets and cuts thereof	81.6
0203111009	other fresh and chilled homegrown pig carcasses and half-carcasses	80.0
0203119009	other carcasses or half-carcasses of other pigs, other than homegrown, fresh or chilled	80.0
0203121909	other unboned homegrown pig shoulders and cuts thereof, fresh or chilled	80.0
0203129009	other unboned joints, shoulders and cuts of other pigs (other than homegrown ones), fresh or chilled	80.0
0203191109	other homegrown pig shoulder butts and cuts thereof, fresh or chilled	80.0
0203191309	other unboned homegrown pig loins and cuts thereof, fresh or chilled	80.0
0203191509	other streaked homegrown pig briskets and cuts thereof, fresh or chilled	80.0
0203195509	other boned parts of homegrown pigs, fresh or chilled	80.0
0203195909	other homegrown pig meat, fresh or chilled	80.0
0203199009	other fresh or chilled pork (other than homegrown pig meat)	80.0
0203221909	other frozen unboned homegrown pig shoulders and cuts thereof	80.0
0203229009	other unboned frozen joints, shoulders and cuts of other pigs (other than homegrown ones)	80.0
0203291309	other unboned frozen homegrown pig loins and cuts thereof	80.0
0203299009	other frozen pork (other than homegrown pig meat)	80.0
9103900000	other timepieces not intended for personal wear or portable use, with clockwork mechanisms for timepieces intended for portable use or personal wear, other than timepieces under commodity item 9104, other than electric	78.2
0209009000	unrendered, fresh, chilled, frozen, salted, pickled, dried, smoked poultry fat	77.8
1602311100	ready-to-eat or canned turkey meat under commodity item 0105 with raw meat content of 57% wt. or higher	74.7

Code 10 digits	Product Description	Tariff Rate
0203295909	other frozen parts of homegrown pigs, other than boned	72.0
9105190000	other alarm clocks not intended for personal wear or portable use	68.6
8702101991	other motor vehicles designed for carrying 10 or more persons, driver inclusive, with compression-ignition internal combustion engines (diesel or semidiesel) with capacity greater than 2500 cub. cm manufactured more than 7 years ago	68.1
1602319000	other cooked or canned food of turkey	66.8
1602329000	other ready-to-eat or canned poultry products made from GALLUS DOMESTICUS, commodity item 0105	64.4
0202305009	other frozen boned cattle shoulder, neck and shoulder part and brisket	64.1
0202301009	other boned front quarters, whole or cut into not more than five pieces, with each quarter representing one block; with the "compensated" quarters representing two blocks one of which contains the front quarter, whole or cut into not more than five pieces, with the other containing the hind quarter, except for the tenderloin, in one piece	63.5
0203295509	other frozen boned parts of homegrown pigs	62.1
1701991001	white sugar without flavoring-aromatic or coloring agents	61.9
0808105004	Granny Smith fresh apples	61.5
0202205009	other frozen unboned, uncut or cut hind cattle quarters	61.4
0808102004	Golden Delicious fresh apples	60.8
0201100009	other cattle carcasses and half-carcasses, fresh or chilled	60.0
0201202009	other unboned "compensated" cattle quarters, fresh or chilled	60.0
0201203001	other cuts with bone in of meat of bovine animals, fresh or chilled	60.0
0201203009	other unboned, uncut or cut front cattle quarters, fresh or chilled	60.0
0201205009	other unboned, uncut or cut hind cattle quarters, fresh or chilled	60.0
0201209009	other unboned cattle cuts, fresh or chilled	60.0
0201300009	other boned cattle meat, fresh or chilled	60.0
0202203009	other frozen unboned, uncut or cut front cattle quarters	60.0
0202209009	other frozen unboned cattle cuts	60.0
0202305003	boneless meet of bovine animals, frozen	60.0
1602323000	ready-to-eat or canned poultry products made from GALLUS DOMESTICUS, commodity item 0105, containing 25% wt. or more, but less than 57% wt. of poultry meat or giblets	58.3
8470500000	cashpoints	57.7
6402995000	slippers and other home footwear with a plastic top and a sole	57.5
1704109900	other chewing gum (other than in sticks) with sucrose content of 60% wt. or higher (including invert sugar in terms of sucrose)	56.6
9102990000	other watches intended for personal wear or portable use, stop-watches inclusive, other than watches and stop-watches under commodity item 9101	56.4
2203000900	other malt beer in containers with a capacity of 10 l or less, other than bottles	55.3
9103100000	electric timepieces not intended for portable use or personal wear, with clockwork mechanisms for timepieces intended for portable use or personal wear, other than timepieces under commodity item 9104	54.9
9404100000	mattress frames	54.4
0202309009	other frozen boned cattle meat	53.6
6309000000	used clothes and other items	53.5
9404300000	sleeping bags	53.4
9404291000	spring-loaded mattresses made of other materials	52.5
6405209100	slippers and other home footwear with a top made from textile materials and a sole made from other materials	52.2
3926909909	other staff made of plastic and other materials that belong to the HS code group 3901-3914	51.8

Code 10 digits	Product Description	Tariff Rate
1601001000	prepared food made of liver	51.5
1905311100	other men's or boys' sets made from man-made yarn, other than knitted, other than working and professional	51.3
4203210000	gloves, muffles or mittens from natural or composite leather intended specificaly for sports use	51.2
1602398000	other ready-to-eat or canned poultry products under commodity item 0105	51.1
0207269900	Poultry not cut in pieces, frozen	50.3